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Mr. Geoffrey Spain
Land Quality Bureau
Iowa Department of Natural Resources
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

Dear Geoff:

On behalf of the Harrison County Landfill Commission, SCS Engineers is submitting the 2024 Annual Water Quality Report, as required by Iowa Department of Natural Resources Permit No. 43-SDP-05-94P. This report is intended to satisfy the requirements of 567 Iowa Administrative Code (IAC) Chapter 113.10(5)c(1) and 113.10(6)d(1), related to recordkeeping and notification and annual reporting requirements listed in IAC 113.10(10).

The 2024 Leachate Control System Performance Evaluation Report is included in Appendix F to fulfill the requirements listed in IAC 113.7(5)b(14). The 2024 Landfill Gas Report in Appendix G is presented to fulfill the landfill gas monitoring and reporting requirements listed in IAC 113.9(2)d.

Please contact us if you have any questions or need additional information regarding the attached reports.

Sincerely,



Sean Marczewski
Project Professional
SCS Engineers



Nathan Ohrt
Senior Project Professional
SCS Engineers

SAM/NPO

Copy: Mr. Tyler Hinkel, Operations Manager, Harrison County Landfill Commission



2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Report

Harrison County Sanitary Landfill
Solid Waste Permit No. 43-SDP-05-94P

Prepared for:

Harrison County Landfill Commission

SCS ENGINEERS

27224470.25 | March 2025

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CERTIFICATION

Prepared by: Sean Marczewski Date: March 7, 2025

Typed: Sean Marczewski

Reviewed by: Nathan Ohrt Date: March 7, 2025

Typed: Nathan Ohrt

Certification page (PE or groundwater scientist signature) **113.10(1)"d"**

For the purposes of this rule, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.

Executive Summary

Period of Report Coverage

The period of coverage for this report is from January through December 2024. Groundwater sampling events were conducted in June and November 2024 at the Harrison County Sanitary Landfill.

Report Priority

- Department review urgency: None.
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Action and/or permit amendments needed: None.

Site Status and Applicable Rules

The following summarizes the site status and applicable rules associated with groundwater sampling at the Harrison County Sanitary Landfill:

- Solid Waste Landfill Status: Active
- Types of Wastes Accepted: MSW and C&D waste
- Applicable IAC Rules: 2009 567-113.10

Comments

The following summarizes points of special emphasis:

No statistically significant increases (SSIs) above background were measured during the 2024 statistical evaluation for monitoring wells in the detection monitoring program. Detection monitoring will continue for monitoring wells MW-8A, MW-10R, MW-11A, MW-13R, MW-16, MW-17, and background monitoring wells MW-1A and MW-14.

There were two well/detected constituents with indicated SSIs above background for monitoring wells in the assessment monitoring program that are summarized in **Table 6**. The monitoring wells with SSIs are in assessment monitoring and do not require a resample. Therefore, the SSIs were not confirmed. Assessment monitoring will continue for monitoring wells MW-4A, MW-5A, and MW-12B.

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Acronyms/Abbreviations:

ACM = Assessment of Corrective Measures
C&D = Construction and Demolition
CAMP = Corrective Action Monitoring Plan
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
COC = Chain of Custody
DO = Dissolved Oxygen
DQR = Double Quantification Rule
DNR = Department of Natural Resources
EPA = Environmental Protection Agency
GWPS = Groundwater Protection Standard
HMSP = Hydrologic Monitoring System Plan
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LN = Lognormal
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
MSWLF = Municipal Solid Waste Landfill
N = Normal
NC = No Change
NP = Non-Parametric
ORP = Oxidation Reduction Potential
P = Parametric
PL = Prediction Limit
RL = Reporting Limit
SWS = DNR Statewide Standard for a protected groundwater source
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
UCL = Upper Confidence Limit
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE HISTORY

The Harrison County Sanitary Landfill (Landfill) is located within the S ½ of the NW ¼ of section 20, T79N, R42W in Harrison County, Iowa. The Harrison County Sanitary Landfill was formerly made up of two separate areas, the East and West municipal solid waste landfill (MSWLF) units. In 1975 the East MSWLF unit, which covered roughly 12.1 acres, was opened and accepted waste until it closed in 1995. In accordance with an Iowa Department of Natural Resources (DNR) Permit revision dated December 2, 2019 (Doc No. 96453) the decision was made to rescind the closure permit for the East MSWLF unit. Therefore, since the 2020 reporting period, the East and West MSWLF units are considered one contiguous unit.

1.2 SITE HYDROGEOLOGY

The following summary regarding the Landfill hydrogeology is an excerpt from the February 2009 Hydrologic Monitoring System Plan (HMSP) by Barker Lemar Engineering Consultants (Doc No. 72550).

Previous hydrogeologic investigations of the Harrison County Sanitary Landfill were provided in the Report of Hydrogeologic/Geotechnical Investigation dated May 27, 1994, prepared by Geotechnical Services, Inc. (1994 GSI report). This report incorporated information prepared by Nebraska Testing Corporation in September 1990 (Preliminary Hydrogeological Study), October 1991 (Hydrogeological Study Phase II), and June 1993 (Report of Hydrogeological Study). Information from the 1994 GSI report and subsequent boring log information was compiled to create the summary below.

The following summarizes the regional geologic setting (1994 GSI report):

In a regional sense, the geologic setting is relatively consistent, with Pleistocene loesses and glacial sediments overlying Pennsylvanian age shales and limestones. Thick sequences of Peoria and Loveland age loess are common on the hilltops, with glacial sediments or bedrock occasionally exposed in ravines and river channels that dissect the uplands. The character of the glacial sediments is quite variable with lithologies of sediments ranging from poorly graded sands and gravels (SP-GP) to high plastic clays and silty clays (CL-CH). The region is drained by the Boyer River and its many smaller tributaries.

The Harrison County Sanitary Landfill is situated in the Western Loess Hills region, which is characterized by a thick loess cover and sharply ridged terrain. The site is bordered by agricultural and wetland property on the east, Elk Creek on the north and east, the City of Logan wastewater treatment facility to the west, ceased quarry operations to the south, and active quarry operations to the north. The 1994 GSI report characterized the overall site geology as follows:

... somewhat complex with sand, silt and clay sediments of Pleistocene age and previously excavated, backfilled, and reworked sediments overlying Pennsylvanian age limestone and shales in the existing landfill area [(East MSWLF unit)]. In the proposed expansion area [(West MSWLF unit)], thick sequences of fill materials overlie bedrock.

Prior to the site's development as a solid waste facility, the western and northern portion of the property was quarried; however, it was determined the quality of limestone in this area was low and the excavation has been backfilled with quarry operation overburden (backfill) materials. The extent of the quarry operation¹ is not clearly defined; however, unusually flat topography was observed in the northwest portion of the site prior to construction of the West MSWLF unit and the 1994 GSI report suggested this was the area of the quarry operation. The on-site boring information also supports the conclusion that the majority of the West MSWLF unit is situated on backfill material. The 1994 GIS report characterized the backfill material as follows:

These sediments vary in color from light to dark brown with some yellow brown and gray to black. The sediment character ranges from poorly graded sands to high plastic clays (SP, SC, ML, CL, and CH) and varies in consistency from soft to very firm. The fill contains chips of shale and limestone as well as organic horizons (green grass blades) intermixed within the finer grained sediments. The relative thickness of the fill across the site is quite variable too, as it ranges from 67 (MWC-6) to 110 (DH-5- 94) feet.

The cross-sectional location map and cross-section figures from the 1994 GSI report are included in Attachment A [not included in this Annual Water Quality Report]. The southeastern portion of the West MSWLF unit (bordering the East MSWLF unit) was not quarried as deep since the underlying bedrock and the glacial outwash sand units are present in this area. This can be seen by the cross-section figures and glacial outwash sand aquifer isopach map. The glacial outwash sand unit overlays the Pennsylvanian age limestone and shales and varied in thickness from 22 to 36 feet and seemed to be pervasive throughout much of the site except the quarried area (beneath the majority of the West MSWLF unit), where it had been excavated. The glacial outwash sand aquifer isopach map is included in Attachment A [not included in this Annual Water Quality Report]. A detailed description of the rest of the "complex" site geology is not discussed since it has been excavated and backfilled beneath the West MSWLF unit.

The 1994 GSI report concluded that the sand and gravel seams within the glacial deposits or sediments were the potable water supply in this area and the uppermost bedrock was not an aquifer. The following is the water well inventory in this area from the 1994 GSI report:

Perusal of available areal water well logs suggests that wells that occur in the upland setting tap potable water supplies within the Pleistocene sediments. The water bearing unit would likely be sand and gravel seams within the glacial deposits or sediments that tend to perch water. Telephone discussions with Mr. Paul Van Dorpe of the Iowa Department of Natural Resources, Geological Survey Bureau (10/20/93) revealed that state researchers consider the deeper Pennsylvanian rocks in western Iowa to be a nonaquifer. He said that most rural homes in this area get their water from large diameter seepage wells that are drilled into the Pleistocene deposits.

Based on this, two aquifers exist at the site – the water table system aquifer and the glacial outwash sand aquifer. The groundwater flow for the water table system beneath the site was described in the 1994 GSI report as follows:

... watertable flow beneath the existing landfill area [(East MSWLF unit)] is to the north-northeast at a gradient of 0.077. The flow direction changes in the western portion of

the site (where the new development is proposed [(West MSWLF unit)]) to primarily a northwestern flow. This part of the site is where previous quarry excavation and backfilling completely altered and reworked the pre-existing stratigraphy.

A groundwater contour map of the water table system aquifer was included in Attachment A of the Revised HMSP. The water table system groundwater elevation beneath the West MSWLF unit ranges from approximately 1,130 feet above sea level (asl) to 1,050 feet asl, generally from south to north, respectively. As mentioned previously, the extent of the quarry activity is not clearly defined; however, the boring logs indicate that bedrock was encountered at approximately 1,020 feet asl (DH-3-94) in the southern portion of the West MSWLF unit and at approximately 990 feet asl (DH-2-94) in the northern portion of the West MSWLF unit. Based on the available elevation information, separation between the water table and underlying bedrock is more than 60 feet.

The groundwater flow for the glacial outwash sand aquifer beneath the site was described in the 1994 GSI report as “groundwater flow in this deposit trends to the northwest at a gradient of 0.0049.” A groundwater contour map of the glacial outwash sand aquifer from the 1994 report was included in Attachment A of the 2009 Revised HMSP. The majority of the glacial outwash sand aquifer was excavated beneath the West MSWLF unit. A statement from the 1994 GSI report describes the extent of the glacial outwash sand:

The northwest portion of the site is presently an old fill area. Several additional borings and monitor wells were drilled/installed in this area. The glacial outwash sand seam that occurs beneath most of the eastern portion of the site has been removed in the fill area. As this glacial sand was likely truncated during the excavation process, it is probable that it continues to drain waters into the fill materials that presently comprise this area.

From the above review of the hydrogeological setting, the first encountered aquifer beneath the West MSWLF unit appears to be the water table system, which generally flows towards the north to northwest.

2.0 SAMPLING STATUS SUMMARY

Table 1 provides an overview of the sampling status for the Landfill, including the monitoring points in the groundwater monitoring program, the current monitoring program for each monitoring point, comparative statistical findings, and the number of samples collected in each monitoring program since 2008. Samples noted in this table are for the full list required for detection, assessment, and/or corrective action monitoring. For the purpose of tracking samples collected, background samples are included under detection monitoring. Retests for individual parameters, if completed, are not included in the count for the total number of samples in each monitoring program. **Figure 1** depicts the Site Monitoring Network for Harrison County Sanitary Landfill.

Field sheets from the June and November 2024 sampling events are included in **Appendix A**. Sampling completed in 2024 and anticipated sampling for 2025 are summarized in **Table 2**. Laboratory analytical reports from the 2024 sampling events are included in **Appendix B-1**, and the 2024 data validation documentation tables are provided in **Appendix B-2**. The groundwater chemistry summary table is included in **Appendix C**.

3.0 MONITORING WELL MAINTENANCE AND PERFORMANCE SUMMARY

The Harrison County Sanitary Landfill is governed by the monitoring well maintenance and performance reevaluation in IAC 567-113.10(2)"f":

(1) A biennial examination of high and low water levels accompanied by a discussion of the acceptability of well location (vertically and horizontally) and exposure of the screened interval to the atmosphere.

(2) A biennial evaluation of water level conditions in the monitoring wells to ensure that the effects of waste disposal or well operation have not resulted in changes in the hydrologic setting and resultant flow paths.

(3) Measurements of well depths to ensure that wells are physically intact and not filling with sediment. Measurements shall be taken annually in wells which do not contain dedicated sampling pumps and every five years in wells containing dedicated sampling pumps.

(4) A biennial evaluation of well recharge rates and chemistry to determine if well deterioration is occurring.

Table 3 provides the years in which each requirement was last performed and is next scheduled.

3.1 HIGH AND LOW WATER LEVELS EVALUATION

The June and November 2024 groundwater elevations and top of screen elevations are presented in **Table 4**. The measured groundwater elevations in relation to the top of the screened interval elevations indicate that the HMSP monitoring wells are placed at acceptable vertical locations to enable collection of representative groundwater samples and to detect contamination, if present.

3.2 HYDROLOGIC SETTING AND FLOW PATHS EVALUATION

IAC 567-113.10(2)(f)(2) requires an evaluation of groundwater level conditions in the monitoring wells to ensure that the effects of waste disposal or well operation have not resulted in changes in the hydrologic setting and resultant flow paths. Groundwater contours were produced for the Landfill using groundwater elevation data measured during the November 2024 groundwater sampling event. The groundwater contour map is included in **Figure 2**. Comparisons of the 2024 groundwater contours to previous groundwater contours indicate that the groundwater elevations and flow directions are consistent, with the general groundwater flow direction for the Landfill being northwest.

3.3 WELL DEPTHS EVALUATION

Well depths are required to be measured annually for monitoring wells that do not contain dedicated sampling pumps. Monitoring well depths were measured at MW-11A during both of the 2024 groundwater sampling events and are presented in **Table 4**.

3.4 WELL RECHARGE RATE AND CHEMISTRY EVALUATION

IAC 567-113.10(2)(f)(4) requires a biennial evaluation of well recharge rates and chemistry to determine if well deterioration is occurring. Monitoring wells in the Harrison County Sanitary Landfill HMSP are sampled using low-flow techniques, which entails purging and sampling at a low flow rate to reduce disturbance to the well and aquifer and to limit groundwater level drawdown. To achieve this, the purge and sampling flow rate is generally set between 100 and 500 mL/min. During the sampling events conducted within this reporting period, flow rates were within the recommended rate of 100 to 500 mL/min and control of groundwater level drawdown was subsequently maintained to the extent possible by the low-flow sampling technique. Groundwater samples were collected during both 2024 sampling events with the exception of MW-16 during both sampling events, MW-12B during the fall sampling event, and MW-13R during the spring sampling event due to insufficient water. Monitoring well deterioration is not evident in the HMSP monitoring well network for the Landfill.

3.5 WELL MAINTENANCE RECOMMENDATIONS

Based on observations during the November 2024 sampling event, maintenance does not appear to be necessary at this time. Any well maintenance items noted during 2025 sampling activities will be communicated to Landfill personnel upon completion of the sampling activities.

4.0 2024 QUALITY ASSURANCE/QUALITY CONTROL SUMMARY

Quality assurance/quality control (QA/QC) procedures, also referred to as data validation, are performed on analytical laboratory results for laboratory QC samples and site samples. The QA/QC review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at concentrations below regulatory standards, where such standards exist. QA/QC data validation of the analytical laboratory data included review of sample handling, analytical sensitivity, field QA/QC samples, accuracy, and precision. An explanation of the laboratory QA/QC and data validation procedures along with the QA/QC review findings are described in more detail below. The 2024 QA/QC data validation documentation tables are included in **Appendix B-2**.

4.1 SAMPLE COLLECTION AND SAMPLE HANDLING

Sample receipt forms were reviewed and checked to verify that samples were received in proper condition and within the acceptable temperature range. Chain of custody (COC) records for each sampling event were reviewed and confirmed that information was complete, custody was not breached, and samples were analyzed within the acceptable holding times. Notable items regarding sample collection and sample handling procedures are included in the 2024 QA/QC summary tables in **Appendix B-2**.

4.2 ANALYTICAL SENSITIVITY AND BLANKS

Laboratory QA/QC procedures and data validation assist in producing data of acceptable quality and reliability. Eurofins is a certified laboratory in Iowa and performed QA/QC procedures, including analyzing laboratory method blanks in association with samples collected for the project to check for contributions to the analytical results possibly attributable to laboratory-based contamination. Trip

blanks were submitted with groundwater samples for VOC analysis and verified that cross-contamination did not occur during sample handling and transport.

4.3 ACCURACY

Laboratory analytical accuracy can be assessed by evaluating the constituent recoveries from the following laboratory QA/QC samples: initial or continuing calibration verification (ICV or CCV), laboratory control sample (LCS), and LCS duplicate (LCSD). LCS/LCSD samples assess the accuracy of analytical procedures by checking the ability to recover constituents added to clean aqueous matrices. In some cases, the laboratory spiked project samples as matrix spike (MS) and matrix spike duplicate (MSD) samples to assess the ability to recover constituents from a matrix similar to that of project samples. Accuracy was also assessed for organic analyses by evaluating the recovery of organic constituent surrogates.

The data validation confirmed that the laboratory performed accurate QA/QC and appropriately qualified data with laboratory QA/QC accuracy exceedances. The limited CCV and LCS constituent recoveries that were outside of the recommended acceptable range did not appear to affect sample results, as the constituents with recovery exceedances were either not detected in samples or had measured concentrations within the historical range. Laboratory QA/QC items are summarized in the 2024 QA/QC summary tables in **Appendix B-2**.

4.4 PRECISION

According to the Practical Guide for Ground-Water Sampling, Barcelona et al, November 1985, prepared in cooperation with the Robert S. Kerr Environmental Research Laboratory and the United States Environmental Protection Agency's Environmental Monitoring System Laboratory:

“Duplicate sample values which differ by less than $\pm 50\%$ relative difference indicate good error control.”

Field duplicate samples were collected during the June and November 2024 sampling events to evaluate the precision of analytical measurements, as well as the reproducibility of sampling technique. The relative percent differences (RPDs; quantitative difference between the site sample and the field duplicate sample) for each constituent were calculated to evaluate the precision of the data. The RPDs can be evaluated only if the laboratory analysis results for both the site sample and the field duplicate sample are detected above the reporting limit, although instances where one sample is reported as non-detect at the reporting limit and the other sample is detected at a concentration greater than the reporting limit are noted. A result qualified with a “J” qualifier, which indicates an estimated concentration measured between the method detection limit and the reporting limit, and total suspended solids were not considered in the duplicate comparison.

Field duplicate samples were collected at monitoring well MW-11A during the June and November sampling events. The RPD comparisons were within acceptable range and show a general agreement between the site samples and field duplicate samples, indicating any sampling or analysis errors are unlikely and the data are acceptable for their intended use.

4.5 DATA QUALITY SUMMARY

Based on the above QA/QC procedures and the Harrison County Sanitary Landfill field sampling standard operating procedures, the samples collected during this reporting period are considered to be representative of groundwater conditions at the locations and times they were obtained, and no samples were rejected as unusable due to QC failures. Data validation checklists are provided in **Appendix B-2**. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by sampling or analytical irregularities and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory reports in **Appendix B-1**.

5.0 DATA EVALUATION

Statistical evaluations are completed for the Landfill on a semi-annual frequency. **Table 5** provides the background and GWPS summary for the Landfill. The background dataset was updated during the second 2024 semi-annual statistical evaluation. Inorganic parameters in monitoring wells MW-5A and MW-8A during the 2nd 2024 semi-annual sampling event were removed from statistical evaluation due to high concentrations of total suspended solids measured. **Table 6** is a summary of well/detected constituent pairs with no immediately preceding statistically significant increases (SSIs). **Table 7** provides a summary of ongoing and newly identified SSIs. **Table 8** provides a summary of ongoing and newly identified statistically significant levels (SSLs), which for the site are none. Data used for the statistical analyses are included in **Appendix C**. The Summary of Statistical Methodology, which details the statistical evaluations from both the first and second semi-annual sampling events, is included in **Appendix D**. **Table 10** summarizes the historical SSIs and SSLs since 2020. **Table 11** is the Corrective Action Trend Analysis for the Landfill; however, no corrective action is required for the Landfill at this time. The range of measured concentrations for the detected constituents during this reporting period is shown in **Figure 3**, Reporting Period Detection Summary.

6.0 STANDARDS HISTORY

The prediction limits included in the standards history graphs were calculated for the constituents detected during the 2024 sampling event at detection monitoring points. Standards history graphs generated as a result of the 2024 statistical evaluations are included in **Appendix E** and discussed below. The prediction limits for MW-8A, MW-10R, MW-11A, MW-13R, and MW-17 were calculated from background data sets. In all instances the prediction limit was below the statewide standard, with the following exceptions:

- Antimony in MW-13R;
- Arsenic in MW-11A;
- Cobalt in MW-8A, MW-10R, MW-11A, MW-13R, and MW-17;

As discussed in the 2021 Spring Sampling Notification, submitted by Evora Consulting (Doc #100398), a site-specific cobalt GWPS was developed due to naturally occurring cobalt concentrations in the old fill materials that are above the statewide standard. Additional information about the prediction limits and GWPSs can be found in Table 5.

7.0 RECOMMENDATIONS

No SSIs or SSLs were confirmed during the 2024 statistical evaluations. Detection monitoring will continue for monitoring MW-8A, MW-10R, MW-11A, MW-13R, MW-16, MW-17, and background monitoring wells MW-1A and MW-14. Assessment monitoring will continue for monitoring wells MW-4A, MW-5A, and MW-12B. The next full groundwater monitoring event is scheduled for spring 2025. Sampling for the full list of Appendix II constituents is scheduled for the 2026 annual sampling event for monitoring well MW-12B.

8.0 ADDITIONAL REPORTING

In addition to this Annual Water Quality Report, the 2024 Leachate Control System Performance Evaluation Report is included in **Appendix F** and the 2024 Landfill Gas Report is included in **Appendix G**.

Tables

Table 1
Monitoring Program Summary Table
2024 Annual Water Quality Report
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Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Constituents Above Background During the 2024 Reporting Period	Constituents with SSLs	Total Number of Samples in Each Monitoring Program Inorganic/Organic		
						Detection	Assessment	Pre-Corrective Action
HMSP Monitoring Points								
MW-1A	Silt/lean clay with sand	Background	No change	Not applicable (not sampled in 2024)	Not applicable	11/18	-	-
MW-14	Weathered sandstone	Background	No change	Not applicable	Not applicable	14/14	-	-
MW-4A	Silt	Assessment	No change	Di-n-butyl phthalate	None	-	13/23	-
MW-5A	Lean clay with sand ⁽²⁾	Assessment	No change	Carbon Disulfide	None	-	11/23	-
MW-8A	Coarse sand/clay ⁽²⁾	Detection	No change	Not applicable	Not applicable	16/35	-	-
MW-10R	Clay/silty clay ⁽²⁾	Detection	No change	None	Not applicable	16/31	-	-
MW-11A	Weathered shale/silty clay ⁽²⁾	Detection	No change	None	Not applicable	19/36	-	-
MW-12B	Sandy silty clay ⁽²⁾	Assessment	No change	Not applicable (not sampled in 2024)	None	-	10/10	-
MW-13R	Sandy lean clay/sandstone ⁽²⁾	Detection	No change	None	Not applicable	14/24	-	-
MW-16	Sandy silt	Detection	No change	Not applicable (not sampled in 2024)	Not applicable	1/1	-	-
MW-17	Loess/Clay	Detection	No change	Not applicable (not sampled in 2024)	Not applicable	8/8	-	-
Other Monitoring Points								
MW-2	Unknown	Water Level						
MW-15	Sandy lean clay/silt	Water Level						
MW-8B	Graded sand	Water Level						
MW-11B	Silty Clay	Water Level						

Notes:

⁽¹⁾ Obtained from screened interval on boring logs and/or cross sections.

⁽²⁾ Screened interval located in the old soil fill.

SSL = Statistically Significant Level above groundwater protection standard.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Harrison County Sanitary Landfill
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Monitoring Point	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents			Full Appendix II Sample Dates	
	June 2024	November 2024	February 2025 Retest	1 st 2025 Semi-Annual	2 nd 2025 Semi-Annual	Previously Collected	Next Event
MW-1A	None (Annual Sample)	No Sample (Well Cap Stuck)		Metals List, TSS	None (Annual Sample)	Not applicable	Not applicable
MW-4A	None (Annual Sample)	Appendix II, TSS	Di-n-butyl phthalate	Metals List, TSS, Di-n-butyl phthalate*	None (Annual Sample)	2/24/2009, 10/31/2014, 2/19/2019, 11/12/2024	2029
MW-5A	None (Annual Sample)	Appendix II, TSS		Metals List, TSS	None (Annual Sample)	2/25/2009, 10/31/2014, 2/19/2019, 11/13/2024	2029
MW-8A	No Sample (Equipment Malfunction)	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not applicable ⁽¹⁾	Not applicable
MW-10R	Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not applicable ⁽¹⁾	Not applicable
MW-11A	Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not applicable ⁽¹⁾	Not applicable
MW-12B	None (Annual Sample)	No Sample (Insufficient Water)		Appendix I, Silvex (2,4,5-TP), TSS	None (Annual Sample)	1/14/2011 (MW-12A), 4/14/2016, 3/30/2021	2026
MW-13R	No Sample (Insufficient Water)	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not applicable ⁽¹⁾	Not applicable
MW-14	Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-16	No Sample (Insufficient Water)	No Sample (Insufficient Water)		Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-17	No Sample (Equipment Malfunction)	No Sample (Insufficient Water)		Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable

Notes:

⁽¹⁾ Monitoring wells were moved back to the detection monitoring program beginning with the 1st 2019 semi-annual statistical evaluation; therefore, Appendix II sampling is no longer required.

* Pending results of the February 2025 retesting event.

Metals List includes: antimony, arsenic, barium, cobalt, copper, lead, nickel, and zinc.

TSS - Total Suspended Solids.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
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Compliance with:	Monitoring Calendar Years			
	2022	2023	2024	2025
567 IAC 113.10(2)"f"(1) high and low water levels	Completed	Completed	Included	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry	Completed		Included	
Waste separation from ground water 113.6(2)i	Completed	Completed	Included	Scheduled

Table 4
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
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Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Recent Flow Rate (L/min)		
					6/20/2024	11/12/2024		Initial Flow Rate (L/min)		% Change
MW-1A	1186.60	1126.5	70.2	Groundwater Level (ft)	NM	NM	NM	0.070 10/31/2014	0.180 5/25/2023	157%
				Groundwater Elevation (Ft MSL)	NM	NM				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	NM	NM				
MW-2	1070.88	1042.7	38.1	Groundwater Level (ft)	NM	18.62	-0.1	Piezometer for Water Level Only		
				Groundwater Elevation (Ft MSL)	NM	1052.26				
				Measured Well Depth (ft)	NM	38.2				
				Submerged screen	NA	Y				
MW-4A	1144.78	1076.4	78.4	Groundwater Level (ft)	NM	69.92	NM	0.075 10/31/2014	0.200 11/12/2024	167%
				Groundwater Elevation (Ft MSL)	NM	1074.86				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	NM	N				
MW-5A	1167.96	1089.8	88.1	Groundwater Level (ft)	NM	70.22	NM	0.086 10/31/2014	0.183 11/13/2024	113%
				Groundwater Elevation (Ft MSL)	NM	1097.74				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	NM	Y				
MW-8A	1098.69	1061.7	52.6	Groundwater Level (ft)	35.54	33.14	NM	0.175 10/6/2015	0.192 11/13/2024	10%
				Groundwater Elevation (Ft MSL)	1063.15	1065.55				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	Y	Y				
MW-8B	1098.32	1039.1	74.4	Groundwater Level (ft)	NM	36.00	1.1	Piezometer for Water Level Only		
				Groundwater Elevation (Ft MSL)	NM	1062.32				
				Measured Well Depth (ft)	NM	73.3				
				Submerged screen	NM	Y				
MW-10R	1096.39	1045.0	66.9	Groundwater Level (ft)	32.31	31.60	NM	0.188 10/3/2019	0.183 11/12/2024	-3%
				Groundwater Elevation (Ft MSL)	1064.08	1064.79				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	Y	Y				
MW-11A	1076.83	1049.8	37.0	Groundwater Level (ft)	24.12	22.86	-0.4	0.180 10/6/2015	0.158 11/13/2024	-12%
				Groundwater Elevation (Ft MSL)	1052.71	1053.97				
				Measured Well Depth (ft)	37.4	37.3				
				Submerged screen	Y	Y				
MW-11B	1076.67	1028.7	55.0	Groundwater Level (ft)	NM	18.99	-2.2	Piezometer for Water Level Only		
				Groundwater Elevation (Ft MSL)	NM	1057.68				
				Measured Well Depth (ft)	NM	57.2				
				Submerged screen	NM	Y				
MW-12B	1190.83	1160.8	45.0	Groundwater Level (ft)	NM	NM	NM	0.150 4/11/2018	0.200 3/11/2022	33%
				Groundwater Elevation (Ft MSL)	NM	NM				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	NM	N				
MW-13R	1120.26	1067.3	63.4	Groundwater Level (ft)	50.09	50.61	NM	0.150 4/11/2018	0.192 11/12/2024	28%
				Groundwater Elevation (Ft MSL)	1070.17	1069.65				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	Y	Y				

Table 4
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Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min)	Recent Flow Rate (L/min)	
					6/20/2024	11/12/2024				% Change
MW-14	1119.97	1064.7	66.0	Groundwater Level (ft)	47.16	47.51	-0.1	0.158 8/1/2018	0.200 11/12/2024	27%
				Groundwater Elevation (Ft MSL)	1072.81	1072.46				
				Measured Well Depth (ft)	66.1	NM				
				Submerged screen	Y	Y				
MW-15	1073.51	1061.5	22.6	Groundwater Level (ft)	NM	12.33	-0.1	Piezometer for Water Level Only		
				Groundwater Elevation (Ft MSL)	NM	1061.18				
				Measured Well Depth (ft)	NM	22.7				
				Submerged screen	NM	N				
MW-16	1167.69	1092.0	91.6	Groundwater Level (ft)	NM	NM	NM	0.150 4/11/2018	0.200 11/08/2021	33%
				Groundwater Elevation (Ft MSL)	NM	NM				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	NM	NM				
MW-17	1173.90	1099.0	90.5	Groundwater Level (ft)	69.81	NM	-0.07	0.150 4/11/2018	0.178 5/25/2023	19%
				Groundwater Elevation (Ft MSL)	1104.09	NM				
				Measured Well Depth (ft)	90.6	NM				
				Submerged screen	Y	NM				

Notes:

NM - Not measured.

Comments:

- 1) Total depths in monitoring wells with submersible pumps are only measured once every 5 years. Monitoring wells with submersible pumps were measured during the 2020 reporting period and will be measured next during the 2025 reporting period.
- 2) Measured well depths were within 1.5 feet of the installed depths except for MW-11B. MW-11B is a supplemental well for water level only and is not part of the HMSP monitoring network.

**Table 5
Background and GWPS Summary
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Interwell Background/GWPS (MW-1A & MW-14)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	25	8	0.000228*	0.0022	0.000774	0.00223	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	25	22	0.000716*	0.0048	0.001757	0.003965	PL (P)	0.01	MCL
Barium (Ba)	mg/L	25	25	0.109	0.8220	0.429920	0.822	PL (NP)	2.0	MCL
Beryllium (Be)	mg/L	21	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	21	6	0.00005 (1/2 RL)	0.00034*	0.000125	0.00034	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	21	2	0.0006535*	0.0025 (1/2 RL)	0.002375	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	25	23	0.0000555*	0.0012	0.000415	0.001318	PL (P)	0.0021	SWS
Copper (Cu)	mg/L	25	2	0.000981*	0.005	0.002556	0.00543	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	25	7	0.00025 (1/2 RL)	0.0014	0.000372	0.00138	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	25	15	0.00197*	0.0103	0.004193	0.0103	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	21	1	0.00112*	0.0025 (1/2 RL)	0.002434	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	21	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	21	1	0.0005 (1/2 RL)	0.000861*	0.000517	0.000861	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	21	13	0.000852*	0.00446*	0.002079	0.004408	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	25	4	0.005 (1/2 RL)	0.0267	0.010756	0.0267	PL (NP)	2.0	SWS

Intrawell Background/GWPS (MW-8A)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	2	0.000463*	0.0005 (1/2 RL)	0.000494	0.0005	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	8	8	0.000889*	0.00299	0.001989	0.00472	PL (P)	0.01	MCL
Barium (Ba)	mg/L	8	8	0.0201	0.0584	0.03365	0.08221	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	8	2	0.000141*	0.00396	0.000888	0.00396	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	8	8	0.000165*	0.00239	0.000971	0.003986	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	8	5	0.000395*	0.0236	0.004841	0.04501	PL (P)	0.1	MCL
Cobalt (Co)	mg/L	8	8	0.00515	0.0107	0.007223	0.014	PL (P)	0.014	SSS
Copper (Cu)	mg/L	8	4	0.001 (1/2 RL)	0.501	0.067819	0.0501**	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	8	8	0.00011*	0.00343	0.00148	0.006041	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	8	8	0.0318	0.0464	0.03979	0.05987	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.0025	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.0005	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	8	6	0.000072*	0.000635*	0.000315	0.001018	PL (P)	0.002	MCL
Vanadium (V)	mg/L	8	8	0.000719*	0.0052	0.002408	0.008847	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	8	5	0.005 (1/2 RL)	0.131	0.030388	0.207	PL (P)	2.0	SWS

**Table 5
Background and GWPS Summary
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Intrawell Background/GWPS (MW-10R)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	5	0.000407*	0.0005355*	0.000479	0.0006128	PL (P)	0.006	MCL
Arsenic (As)	mg/L	8	6	0.00078*	0.0028	0.001703	0.003896	PL (P)	0.01	MCL
Barium (Ba)	mg/L	8	8	0.054800	0.123	0.094756	0.1917	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	8	4	0.00005 (1/2 RL)	0.0024	0.000458	0.004108	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	8	2	0.000361*	0.0025 (1/2 RL)	0.002069	0.0025	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	8	8	0.0001165*	0.0036	0.000930	0.006237	PL (P)	0.006237	SSS
Copper (Cu)	mg/L	8	3	0.0009655*	0.0089	0.003021	0.00893	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	8	6	0.000166*	0.0017	0.000605	0.002199	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	8	5	0.0016*	0.0115	0.003769	0.01894	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	8	0.00483*	0.0091	0.007135	0.01259	PL (P)	0.05	MCL
Silver (Ag)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.002	MCL
Vanadium (V)	mg/L	8	8	0.00231*	0.00454*	0.003329	0.006162	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	8	3	0.005 (1/2 RL)	0.9426	0.130253	0.9426	PL (NP)	2.0	SWS

Intrawell Background/GWPS (MW-11A)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	7	0.000328*	0.000699*	0.000523	0.0009126	PL (P)	0.006	MCL
Arsenic (As)	mg/L	8	8	0.007080	0.0148	0.009469	0.01896	PL (P)	0.01896	SSS
Barium (Ba)	mg/L	8	8	0.012400	0.0235	0.015869	0.02731	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	8	1	0.000135*	0.0005 (1/2 RL)	0.000454	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	8	8	0.000269*	0.0005	0.000413	0.0007128	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.002500	< 0.005	DQR	0.1	MCL
Cobalt (Co)	mg/L	8	8	0.00144	0.0034	0.002061	0.004071	PL (P)	0.004071	SSS
Copper (Cu)	mg/L	8	0	0.001 (1/2 RL)	0.0025 (1/2 RL)	0.002313	< 0.005	DQR	1.3	MCL
Lead (Pb)	mg/L	8	3	0.00025 (1/2 RL)	0.00101	0.000384	0.00101	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	8	8	0.009075	0.0179	0.012547	0.02204	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.002500	< 0.005	DQR	0.05	MCL
Silver (Ag)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	8	3	0.00003*	0.0005 (1/2 RL)	0.000356	0.0005	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	8	2	0.000505*	0.0025 (1/2 RL)	0.002147	0.0025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	8	1	0.005 (1/2 RL)	1.19	0.155625	1.19	PL (NP)	2.0	SWS

**Table 5
Background and GWPS Summary
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Intrawell Background/GWPS (MW-13R)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	5	0.000363*	0.0028	0.000843	0.006869	PL (P)	0.006869	SSS
Arsenic (As)	mg/L	8	7	0.000938*	0.0062	0.002388	0.008603	PL (P)	0.01	MCL
Barium (Ba)	mg/L	8	8	0.0714	0.5870	0.201781	1.1	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	8	1	0.000495*	0.0005 (1/2 RL)	0.000499	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	8	2	0.00005 (1/2 RL)	0.00064	0.000220	0.000639	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	8	5	0.00108*	0.00361*	0.002023	0.005078	PL (P)	0.1	MCL
Cobalt (Co)	mg/L	8	8	0.000381*	0.0087	0.001942	0.01775	PL (P)	0.01775	SSS
Copper (Cu)	mg/L	8	2	0.00154*	0.0057	0.002780	0.0057	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	8	2	0.00025 (1/2 RL)	0.00635	0.001189	0.00635	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	8	5	0.00131*	0.0239	0.005776	0.09837	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	1	0.000959*	0.0025 (1/2 RL)	0.002307	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	8	2	0.00003*	0.0005 (1/2 RL)	0.000385	0.0005	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	8	5	0.0006985*	0.0070	0.002452	0.008794	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	8	3	0.01 (1/2 RL)	0.827	0.112263	0.827	PL (NP)	2.0	SWS

Intrawell Background/GWPS (MW-17)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	7	3	0.000973*	0.0019	0.001182	0.00187	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	7	3	0.000817*	0.00148*	0.001051	0.00148	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	7	7	0.0258	0.0774	0.037571	0.1233	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	7	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.004	MCL
Cadmium (Cd)	mg/L	7	5	0.00005 (1/2 RL)	0.00026	0.000113	0.000343	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	7	4	0.00233*	0.0193	0.005007	0.0193	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	7	7	0.000159*	0.0014	0.000760	0.002611	PL (P)	0.002611	SSS
Copper (Cu)	mg/L	7	3	0.00193*	0.00496*	0.002960	0.00496	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	7	5	0.00025 (1/2 RL)	0.00233	0.000916	0.003806	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	7	6	0.0025 (1/2 RL)	0.0114	0.005147	0.01696	PL (P)	0.1	SWS
Selenium (Se)	mg/L	7	3	0.00105*	0.0025 (1/2 RL)	0.001997	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	7	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.000500	< 0.001	DQR	0.1	SWS
Thallium (Tl)	mg/L	7	1	0.0005 (1/2 RL)	0.000658*	0.000523	0.000658	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	7	6	0.00131*	0.00353*	0.002236	0.005175	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	7	4	0.01 (1/2 RL)	0.025	0.014886	0.0327	PL (P)	2.0	SWS

Notes:

Background levels based on calculated prediction limits or reporting limit, as applicable.

*. J flag; concentration is below the reporting limit but above the method detection limit. The concentration is estimated.

**. Prediction limit based on the 2023 statistical evaluation.

Acronyms/Abbreviations:

RL = Reporting Limit
 GWPS = Groundwater Protection Standard
 DQR = Double Quantification Rule
 SSS = Site-Specific GWPS
 SWS = Statewide Standard
 PL = Prediction Limit
 MCL = EPA Maximum Contaminant Level
 NP = Non-Parametric
 P = Parametric

Comments:

- Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical analyses consist of prediction limits, double quantification rule, and confidence intervals/confidence bands, as appropriate, and do not use data from the background wells for development of the confidence interval.
- Changes to the previous statistical method during reporting period:** Background prediction limit methodology for parametric datasets switched from Aitchison's Adjustment to Kaplan-Meier Adjustment.
- Re-sampling strategy:** Retesting at the Landfill is performed on a 1-of-2 retesting scheme.
- Justification for data exclusion:** Inorganic data collected prior to the October 2015 semi-annual sampling event was not considered in this statistical evaluation. Monitoring wells were developed and low-flow equipment installed (with the exception of monitoring well MW-10 which was unable to have low-flow equipment installed due to a kink) prior to the 2nd 2015 semi-annual sampling event. Since well development and implementation of low-flow sampling techniques, TSS concentrations have greatly decreased and inorganic samples collected prior to the 2nd 2015 semi-annual sampling event are no longer considered representative of the groundwater at the site. Monitoring well MW-10 was replaced with MW-10R during the 2019 reporting period and low-flow equipment was installed.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding SSIs
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Well	Constituent	Units	Most Recent Result	Background Standard
MW-4A	Di-n-butyl phthalate	µg/L	15.90	<10
MW-5A	Carbon Disulfide	µg/L	1.32	<1
MW-14	Acetone	µg/L	21.50	<10
	Carbon Disulfide	µg/L	1.19	<1

Notes:

- (1) Criteria for inclusion in this table is a well/constituent pair with a control limit exceedance during the current reporting period and no control limit exceedance in the immediately preceding reporting period.
- (2) For monitoring wells sampled annually, background standards utilized were calculated in association with the corresponding sampling event.
- (3) Acetone and carbon disulfide are common laboratory contaminants. The results of the 1st 2025 sampling will be used to confirm or not confirm these detections.

Comments:

- 1) **Problems with the current detection network:** None.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to calculated prediction limits:** None.
- 5) **Re-sampling strategy:** Retesting at the Landfill is performed on a 1-of-2 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
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Well	Constituent	Units	Most Recent Result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5 th background sample
MW-4A	Di-n-butyl phthalate	µg/L	15.9	<10	5	700	11/12/2024	Pending	Scheduled
MW-5A	Carbon disulfide	µg/L	1.32	<1	0.153	700	11/12/2024	NA	10/28/2010
MW-8A	None								
MW-10R	None								
MW-11A	None								
MW-12B	No Sample								
MW-13R	None								
MW-14	Acetone	µg/L	21.5	<10	BG	6300	11/12/2024	Pending	9/29/2020
	Carbon Disulfide	µg/L	1.19	<1	BG	700	11/12/2024	Pending	5/5/2020
MW-16	No Sample								
MW-17	No Sample								

Notes:

For monitoring wells sampled annually, background standards utilized were calculated in association with the corresponding sampling event.

Shaded rows denote constituent/well pairs with SSIs indicated in 2024 but not in 2023. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2023 and 2024 reporting periods.

BG - Background; Monitoring well is in background monitoring and a lower confidence limit was not calculated during statistical evaluation.

NA - Not Applicable; Monitoring well is in assessment monitoring and does not require a resample.

1) A site-specific cobalt GWPS of 0.01071 mg/L was requested in the 2021 Spring Sampling Notification, submitted by Evora Consulting (Doc No. 100398), for wells screened in the old soil fill (MW-8A, MW-10R, MW-11A, MW-12B, and MW-13R). After further investigation it was determined that monitoring well MW-5A is screened in the old soil fill area and the site-specific GWPS was applied beginning with the 1st 2023 statistical evaluation.

2) Retesting for di-n-butyl phthalate in monitoring well MW-4A is scheduled to be completed prior to the 1st 2025 semi-annual sampling event.

3) Acetone and carbon disulfide are common laboratory contaminants. The results of the 1st 2025 sampling will be used to confirm or not confirm these detections.

Comments:

- 1) **Problems with the current assessment network:** None.
- 2) **Proposed remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** Not applicable.
- 5) **Property owner notifications:** Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

Well	Constituent	Units	Most Recent Result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS							
							1 st Year		2 nd Year		3 rd Year			
None														

Notes:

There are no ongoing or newly identified SSLs at the MSWLF unit.

Table 9
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

The Summary of Groundwater Chemistry is located in Appendix C.

Table 10
Historical SSI and SSL
2024 Annual Water Quality Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

Key

= SSI
 = SSL

Well	Constituent	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
MW-4A	Arsenic										
	Di-n-butyl phthalate										
MW-5A	Carbon Disulfide										
	Cobalt										
MW-12B	Benzene										
	Chlorobenzene										
	Chloromethane										
	cis-1,2-Dichloroethene										
	Chromium										
	Cobalt										
	Copper										
	Lead										
	Nickel										
	2,4,5-TP [Silvex] [2C]										
Thallium											

Notes:

- 1) Downgradient monitoring points at the Landfill were moved to intrawell prediction limit analyses beginning with the 1st 2019 semi-annual statistical evaluations. Additionally, inorganic data obtained prior to the implementation of low-flow sampling was removed from statistical consideration during the 2018 reporting period. Intrawell background datasets for each of the monitoring wells were established prior to the 2020 reporting period, therefore SSIs were not confirmed prior to that time.

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion
None						

Notes:

N - Number of Samples

S - Mann-Kendall Statistic

Comments:

1) There are no SSLs at the MSWLF unit, therefore a corrective action analysis is not required.

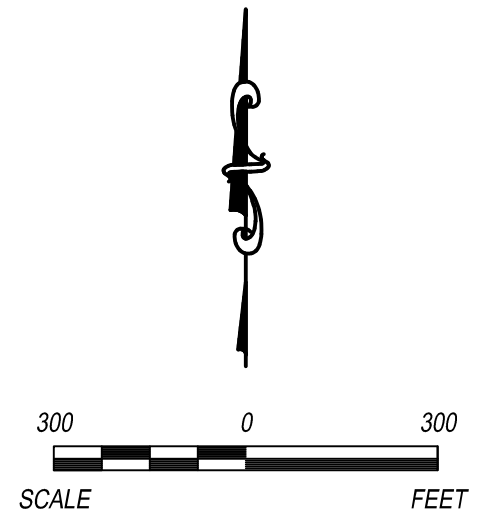
Figures

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LEGEND

- MW-4C HMSP MONITORING WELL
- MW-4C MONITORING WELL
- LFGW-1 LANDFILL GAS WELL
- LPZ-1 LEACHATE PIEZOMETER
- GV GAS VENT
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY











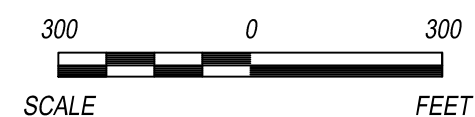
<p>CLIENT</p> <p>HARRISON COUNTY LANDFILL COMMISSION</p> <p>2812 E HIGHWAY 30 LOGAN, IOWA</p>	<p>SHEET TITLE</p> <p>APPROVED MONITORING NETWORK</p>	<p>REV.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>											<p>DATE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																				
<p>SCS ENGINEERS</p> <p>1680 ALL STATE COURT, SUITE 100 WEST DES MOINES, IOWA 50265 (515) 631-6160</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">PROJ. NO. 224470_25</td> <td style="font-size: 8px;">DWG. BY CJD</td> <td style="font-size: 8px;">CHK. BY CJD</td> <td style="font-size: 8px;">PRIN. BY </td> </tr> </table>	PROJ. NO. 224470_25	DWG. BY CJD	CHK. BY CJD	PRIN. BY 	<p>PROJECT TITLE</p> <p>HARRISON COUNTY SANITARY LANDFILL 2024 ANNUAL WATER QUALITY REPORT</p>																												
PROJ. NO. 224470_25	DWG. BY CJD	CHK. BY CJD	PRIN. BY 																														
<p>CADD FILE: 2025 AWQR IMAP.DWG</p>		<p>DATE: 2/24/25</p>																															
<p>FIGURE NO.</p> <p style="font-size: 24px; text-align: center;">1</p>																																	

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LEGEND

-  APPROXIMATE GROUNDWATER CONTOURS BASED ON FIELD MEASUREMENTS TAKEN NOVEMBER 12, 2024
-  MW-4C MONITORING WELL
-  LFGW-1 LANDFILL GAS WELL
-  LPZ-1 LEACHATE PIEZOMETER
-  GV GAS VENT
-  CURRENT WASTE BOUNDARY
-  FUTURE WASTE BOUNDARY
-  APPROXIMATE PROPERTY BOUNDARY



SHEET TITLE	GROUNDWATER CONTOURS	
	PROJECT TITLE	HARRISON COUNTY SANITARY LANDFILL 2024 ANNUAL WATER QUALITY REPORT
CLIENT	HARRISON COUNTY LANDFILL COMMISSION 2812 E HIGHWAY 30 LOGAN, IOWA	
CADD FILE: 2025 AWQR MAP.DWG	DWG BY:	CJD
	CHK BY:	CJD
DATE:	2/24/25	
FIGURE NO.	2	
REV.	DATE	CHK BY

Constituent	Monitoring Point	Maximum Concentration
Antimony (mg/L)	MW-14	0.00223
Arsenic (mg/L)	MW-11A	0.00739
Barium (mg/L)	MW-4A	0.62
Cadmium (mg/L)	MW-11A	0.000539
Cobalt (mg/L)	MW-11A	0.00221
Nickel (mg/L)	MW-11A	0.0113
Selenium (mg/L)	MW-10R	0.00841
Acetone (ug/L)	MW-14	21.5
Carbon disulfide (ug/L)	MW-5A	1.32
Di-n-butyl phthalate (ug/L)	MW-4A	15.9

MW-13R	
Constituent (units)	Concentration
Barium (mg/L)	0.0969 (1/1)
Total Suspended Solids (mg/L)	50.7 (1/1)

MW-11A	
Constituent (units)	Concentration
Arsenic (mg/L)	0.00611 - 0.00739 (4/4)
Barium (mg/L)	0.0149 - 0.0182 (4/4)
Cadmium (mg/L)	0.000385 - 0.000539 (4/4)
Cobalt (mg/L)	0.00201 - 0.00221 (4/4)
Nickel (mg/L)	0.0103 - 0.0113 (4/4)
Total Suspended Solids (mg/L)	2.5 - 73.3 (3/3)

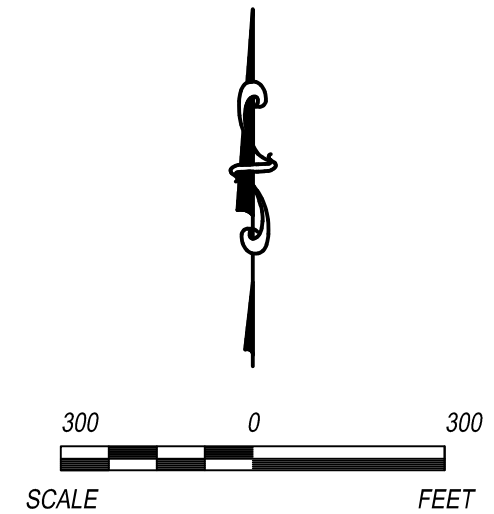
MW-5A	
Constituent (units)	Concentration
Carbon disulfide (ug/L)	1.32 (1/1)
Total Suspended Solids (mg/L)	N/A

MW-10R	
Constituent (units)	Concentration
Barium (mg/L)	0.0584 - 0.0644 (2/2)
Selenium (mg/L)	0.00636 - 0.00841 (2/2)
Total Suspended Solids (mg/L)	<1.88 - <1.88 (0/2)

MW-4A	
Constituent (units)	Concentration
Barium (mg/L)	0.62 (1/1)
Di-n-butyl phthalate (ug/L)	15.9 (1/1)
Total Suspended Solids (mg/L)	7 (1/1)

MW-14	
Constituent (units)	Concentration
Antimony (mg/L)	0.00223 (1/2)
Arsenic (mg/L)	0.00229 (1/2)
Barium (mg/L)	0.199 - 0.213 (2/2)
Acetone (ug/L)	21.5 (1/2)
Carbon disulfide (ug/L)	1.19 (1/2)
Total Suspended Solids (mg/L)	9 - 11.3 (2/2)

- LEGEND
- MW-4C MONITORING WELL
 - LFGW-1 LANDFILL GAS WELL
 - LPZ-1 LEACHATE PIEZOMETER
 - GV GAS VENT
 - CURRENT WASTE BOUNDARY
 - FUTURE WASTE BOUNDARY
 - APPROXIMATE PROPERTY BOUNDARY



REV.	DATE	BY	CHK
1			
2			
3			
4			
5			

SHEET TITLE
**REPORTING PERIOD
DETECTION SUMMARY**

PROJECT TITLE
**HARRISON COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT**

CLIENT
**HARRISON COUNTY LANDFILL
COMMISSION**
2812 E HIGHWAY 30
LOGAN, IOWA

SCS ENGINEERS
1680 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160


PROJ. NO. 2224470.25
DWG. BY: CJD
CHK. BY: CJD
PRIN. MGR.:

CADD FILE:
2025 ANNUAL MAP.DWG

DATE: 2/24/25

FIGURE NO.
3

I:\DES-FS01\DES MOINES\PROJECT\2224470.25\AUTOCAD\2025 ANNUAL MAP.DWG



Appendix A
Groundwater Sampling Field Sheets

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-8A	Date: 6/20/2024
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? Yes	Litter - Well located north of active landfill.

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	35.54
Initial Groundwater Elevation (ft-amsl):	1063.15
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):
Was well pumped/bailed dry?
Total Amount of Time Purged (minutes:seconds):
Average Purge Rate (mL/min):

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes
If yes, explain:	Pump maintenance.

Additional Comments:	No sample - equipment malfunction.
----------------------	------------------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-10R	Date: 6/20/2024
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	32.31
Initial Groundwater Elevation (ft-amsl):	1064.08
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:06 PM	Purging start time.						
2:09 PM	14.3	NM	684.7	7.13	-57.4	25.2	
2:12 PM	15.0	NM	685.4	7.09	-42.6	8.3	
2:15 PM	15.4	NM	681.4	7.08	-36.1	14.4	
2:18 PM	15.6	NM	683.3	7.05	-31.1	28.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	5.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	450.00

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	

Additional Comments:	Color-Clear Odor-None Equipment Malfunction - Dissolved Oxygen not measured.
----------------------	---

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-11A	Date: 6/20/2024
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	37.4
Initial Static Water Level (feet):	24.12
Initial Groundwater Elevation (ft-amsl):	1052.71
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:51 PM	Purging start time.						
12:54 PM	14.4	0.5	1414.9	7.04	198.5	26.2	
12:57 PM	14.8	0.1	1427.6	7.10	191.2	44.4	
1:00 PM	15.3	0.2	1435.8	7.13	186.5	78.9	
1:03 PM	16.7	0.2	1435.8	7.13	183.4	70.5	
1:06 PM	17.1	0.2	1446.2	7.15	180.7	65.2	
1:09 PM	17.1	0.2	1454.0	7.15	178.4	60.4	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	3.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	18:00
Average Purge Rate (mL/min):	172.22

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	Color-Clear Odor-None
----------------------	--------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-13R	Date: 6/20/2024
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? Yes	Litter located 3 feet to the north of small wind fence.

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	50.09
Initial Groundwater Elevation (ft-amsl):	1070.17
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:59 PM	Purging start time.						
5:02 PM	13.4	0.5	779.8	7.24	-117.5	60.5	
5:05 PM	15.2	0.3	775.6	7.17	-122.0	67.0	
5:08 PM	16.2	0.3	792.2	7.15	-128.2	77.8	
5:11 PM	16.8	0.4	798.2	7.13	-134.1	85.3	
5:14 PM	17.1	0.4	797.2	7.12	-140.6	91.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	3.0
Was well pumped/bailed dry?	Yes
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None No sample - insufficient water.

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-14	Date: 6/20/2024
Gradient: Up	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	66.1
Initial Static Water Level (feet):	47.16
Initial Groundwater Elevation (ft-amsl):	1072.81
Equipment Used:	Disposable Bailer

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
7:20 PM	17.0	NM	583.0	7.47	NM	NM	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	35.8
Was well pumped/bailed dry?	Yes
Total Amount of Time Purged (minutes:seconds):	NA
Average Purge Rate (mL/min):	NA

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Pump maintenance.
Additional Comments:	Color-Clear Odor-None Well sampled using disposable bailer.

FORM FOR GROUNDWATER SAMPLING

Project:	Harrison County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-16	Date:	6/20/2024
Gradient:	Down	Sampler:	Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	Yes
Litter - well near active landfill.	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	NM
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	
Was well pumped/bailed dry?	
Total Amount of Time Purged (minutes:seconds):	
Average Purge Rate (mL/min):	

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	No sample - insufficient water.
----------------------	---------------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-17	Date: 6/21/2024
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	90.6
Initial Static Water Level (feet):	69.81
Initial Groundwater Elevation (ft-amsl):	1104.09
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):
Was well pumped/bailed dry?
Total Amount of Time Purged (minutes:seconds):
Average Purge Rate (mL/min):

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Equipment maintenance.
Additional Comments:	No sample - equipment malfunction.

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill
Monitoring Well/Piezometer ID: MW-1A Date: 11/12/2024
Gradient: Up Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS
Well/Piezometer Capped? Yes
Litter/Standing Water? No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)
Measured Well Total Depth (feet): NM
Initial Static Water Level (feet): NM
Initial Groundwater Elevation (ft-amsl): NA
Equipment Used: Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Table with 7 columns: Time, Temperature (°C) 10%, Dissolved Oxygen (mg/L), Specific Conductivity (µS/cm) +/- 10%, pH (S.U.) +/- 0.1, ORP (mV), Turbidity (FNU). Includes a row for 'Purging start time' and a row for 'Parameters stabilized, sample collected.'

Quantity of Water Removed from Well (liters): 0.0
Was well pumped/bailed dry? No
Total Amount of Time Purged (minutes:seconds): 0
Average Purge Rate (mL/min): 0.00

D. WELL MAINTENANCE

Does the well require any future maintenance? Yes
If yes, explain: Well cap is stuck on the well.
Additional Comments: No sample - well cap stuck.

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill			
Monitoring Well/Piezometer ID:	MW-4A	Date:	11/12/2024
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	69.92
Initial Groundwater Elevation (ft-amsl):	1074.86
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:03 AM	Purging start time.						
10:06 AM	11.8	3.3	1782.2	7.12	178.5	18.6	
10:09 AM	12.1	2.0	1777.1	6.99	143.4	30.6	
10:12 AM	12.3	1.5	1776.1	6.97	105.2	10.1	
10:15 AM	12.5	1.1	1777.2	6.95	72.9	9.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	Color-Clear Odor-Sulfur
----------------------	-------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-5A	Date: 11/13/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	70.22
Initial Groundwater Elevation (ft-amsl):	1097.74
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING	
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES	

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)
12:27 PM	Purging start time.					
12:30 PM	12.1	3.4	1549.3	6.95	198.3	15.2
12:33 PM	12.4	2.4	1535.5	6.90	174.2	155.5
12:36 PM	12.7	1.7	1511.8	6.89	121.7	335.1
12:39 PM	13.4	1.3	1488.7	6.88	72.4	274.2
Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color-Grey Odor-Sulfur Raining during sample collection.

FORM FOR GROUNDWATER SAMPLING

Project:	Harrison County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-8A	Date:	11/13/2024
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	33.14
Initial Groundwater Elevation (ft-amsl):	1065.55
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
11:52 AM	Purging start time.						
11:55 AM	11.6	7.5	3560.0	7.10	197.3	124.6	
11:58 AM	11.6	6.0	3560.0	6.74	221.8	111.6	
12:01 AM	11.7	5.9	3564.0	6.73	222.0	90.7	
12:04 AM	11.9	5.6	3572.0	6.70	224.2	91.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	Color-Red/rusty color Odor-Sulfur Raining during sample collection.
----------------------	---

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-10R	Date: 11/12/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	31.60
Initial Groundwater Elevation (ft-amsl):	1064.79
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (μS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)
1:17 PM	Purging start time.					
1:20 PM	14.1	2.5	800.3	7.25	110.9	7.9
1:23 PM	14.5	2.6	801.7	7.18	96.2	5.5
1:26 PM	14.9	2.6	802.1	7.15	87.4	5.0
1:29 PM	14.7	2.5	804.9	7.13	83.5	9.5
Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	Color-Clear Odor-Sulfur
----------------------	-------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-11A	Date: 11/13/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	37.3
Initial Static Water Level (feet):	22.86
Initial Groundwater Elevation (ft-amsl):	1053.97
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
10:53 AM	Purging start time.						
10:56 AM	12.2	3.2	1708.7	7.71	199.6	6.2	
10:59 AM	12.3	2.0	1711.3	7.41	206.7	19.4	
11:02 AM	12.2	1.5	1712.0	7.30	209.5	35.5	
11:05 AM	12.2	1.2	1711.5	7.25	210.3	39.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	

Additional Comments:	Color-Clear Odor-None Raining during sample collection.
----------------------	--

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-12B	Date: 11/12/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	NM
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	No sample - insufficient water.

FORM FOR GROUNDWATER SAMPLING

Project:	Harrison County Sanitary Landfill		
Monitoring Well/Piezometer ID:	MW-13R	Date:	11/12/2024
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	50.61
Initial Groundwater Elevation (ft-amsl):	1069.65
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (μS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)
11:31 AM	Purging start time.					
11:34 AM	12.2	2.9	962.8	7.32	167.2	58.7
11:37 AM	12.4	1.8	959.1	7.22	138.3	51.1
11:40 AM	12.5	1.5	960.0	7.18	95.0	43.3
11:43 AM	12.9	1.3	956.8	7.16	63.0	28.0
Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No
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If yes, explain:	
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Additional Comments:	Color-Clear Odor-None
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FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-14	Date: 11/12/2024
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	47.51
Initial Groundwater Elevation (ft-amsl):	1072.46
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:36 PM	Purging start time.						
12:39 PM	13.4	2.9	710.7	7.68	74.5	26.2	
12:42 PM	13.2	2.4	689.0	7.57	-6.6	12.3	
12:45 PM	13.3	2.3	685.8	7.55	-41.3	8.6	
12:48 PM	13.3	2.1	684.3	7.53	-58.9	7.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-16	Date: 11/12/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	NM
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING							
-----------------	--	--	--	--	--	--	--

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	No sample - insufficient water.

FORM FOR GROUNDWATER SAMPLING

Project: Harrison County Sanitary Landfill	
Monitoring Well/Piezometer ID: MW-17	Date: 11/12/2024
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No


B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	NM
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Submersible Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	The pump is stuck in the well and I could not be extracted.
Additional Comments:	No sample - insufficient water.



Appendix B

Laboratory Analytical Reports

B-1: Harrison County Sanitary Landfill

B-2: 2024 Data Validation Documentation

B-1: Harrison County Sanitary Landfill

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sean Marczewski
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 7/15/2024 9:39:47 AM

JOB DESCRIPTION

Harrison County Landfill 1st 2024 GW

JOB NUMBER

310-284268-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization



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Authorized for release by
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Case Narrative

Client: SCS Engineers
Project: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Job ID: 310-284268-1

Eurofins Cedar Falls

Job Narrative 310-284268-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/24/2024 6:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-425611 recovered above the upper control limit for Trichlorofluoromethane (29.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-425611/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-284268-1	MW-10R	Water	06/20/24 14:24	06/24/24 06:00
310-284268-2	MW-11A	Water	06/20/24 13:44	06/24/24 06:00
310-284268-3	MW-14	Water	06/20/24 19:28	06/24/24 06:00
310-284268-4	MW-D	Water	06/20/24 13:44	06/24/24 06:00
310-284268-5	Trip Blank	Water	06/20/24 00:00	06/24/24 06:00

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Detection Summary

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-10R

Lab Sample ID: 310-284268-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000790	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0584		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00841		0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00223	J	0.00500	0.00110	mg/L	1		6020B	Total/NA

Client Sample ID: MW-11A

Lab Sample ID: 310-284268-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00100	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00739		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0151		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000539		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00221		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00249	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0109		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0163	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-284268-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00223		0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00229		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.213		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000410	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00213	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00446	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	11.3		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-284268-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00700		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0149		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000498		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00209		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0113		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-284268-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-10R

Lab Sample ID: 310-284268-1

Date Collected: 06/20/24 14:24

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 13:58	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 13:58	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 13:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 13:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 13:58	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 13:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 13:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 13:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 13:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 13:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 13:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 13:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 13:58	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 13:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 13:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 13:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 13:58	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 13:58	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 13:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 13:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 13:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 13:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 13:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 13:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 13:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 13:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 13:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 13:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 13:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 13:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 13:58	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 13:58	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 13:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 13:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 13:58	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 13:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 13:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 13:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 13:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 13:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 13:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 13:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 13:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 13:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 13:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 13:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		06/26/24 13:58	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-10R

Lab Sample ID: 310-284268-1

Date Collected: 06/20/24 14:24

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		73 - 130		06/26/24 13:58	1
Toluene-d8 (Surr)	98		80 - 120		06/26/24 13:58	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/27/24 09:00	07/12/24 17:10	1
Arsenic	0.000790	J	0.00200	0.000530	mg/L		06/27/24 09:00	07/12/24 17:10	1
Barium	0.0584		0.00200	0.000660	mg/L		06/27/24 09:00	07/12/24 17:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/27/24 09:00	07/12/24 17:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/27/24 09:00	07/12/24 17:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/27/24 09:00	07/12/24 17:10	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/27/24 09:00	07/12/24 17:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/27/24 09:00	07/12/24 17:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/27/24 09:00	07/12/24 17:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		06/27/24 09:00	07/14/24 19:40	1
Selenium	0.00841		0.00500	0.00140	mg/L		06/27/24 09:00	07/12/24 17:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/27/24 09:00	07/12/24 17:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/24 09:00	07/12/24 17:10	1
Vanadium	0.00223	J	0.00500	0.00110	mg/L		06/27/24 09:00	07/12/24 17:10	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/27/24 09:00	07/12/24 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			06/25/24 10:39	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-11A

Lab Sample ID: 310-284268-2

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 14:20	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 14:20	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 14:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 14:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 14:20	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 14:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 14:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 14:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 14:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 14:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 14:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 14:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 14:20	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 14:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 14:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 14:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 14:20	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 14:20	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 14:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 14:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 14:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 14:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 14:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 14:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 14:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 14:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 14:20	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 14:20	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 14:20	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 14:20	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 14:20	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 14:20	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 14:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 14:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 14:20	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 14:20	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 14:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 14:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 14:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 14:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 14:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 14:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 14:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 14:20	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 14:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 14:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		06/26/24 14:20	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-11A

Lab Sample ID: 310-284268-2

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		73 - 130		06/26/24 14:20	1
Toluene-d8 (Surr)	99		80 - 120		06/26/24 14:20	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00100	J	0.00200	0.00100	mg/L		06/27/24 09:00	07/12/24 17:12	1
Arsenic	0.00739		0.00200	0.000530	mg/L		06/27/24 09:00	07/12/24 17:12	1
Barium	0.0151		0.00200	0.000660	mg/L		06/27/24 09:00	07/12/24 17:12	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/27/24 09:00	07/12/24 17:12	1
Cadmium	0.000539		0.000200	0.000100	mg/L		06/27/24 09:00	07/12/24 17:12	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/27/24 09:00	07/12/24 17:12	1
Cobalt	0.00221		0.000500	0.000170	mg/L		06/27/24 09:00	07/12/24 17:12	1
Copper	0.00249	J	0.00500	0.00180	mg/L		06/27/24 09:00	07/12/24 17:12	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/27/24 09:00	07/12/24 17:12	1
Nickel	0.0109		0.00500	0.00210	mg/L		06/27/24 09:00	07/14/24 19:44	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/27/24 09:00	07/12/24 17:12	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/27/24 09:00	07/12/24 17:12	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/24 09:00	07/12/24 17:12	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/27/24 09:00	07/12/24 17:12	1
Zinc	0.0163	J	0.0200	0.00970	mg/L		06/27/24 09:00	07/12/24 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	5.88		1.88	1.39	mg/L			06/25/24 11:58	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-14

Lab Sample ID: 310-284268-3

Date Collected: 06/20/24 19:28

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 14:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 14:43	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 14:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 14:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 14:43	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 14:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 14:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 14:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 14:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 14:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 14:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 14:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 14:43	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 14:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 14:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 14:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 14:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 14:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 14:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 14:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 14:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 14:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 14:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 14:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 14:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 14:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 14:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 14:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 14:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 14:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 14:43	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 14:43	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 14:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 14:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 14:43	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 14:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 14:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 14:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 14:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 14:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 14:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 14:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 14:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 14:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 14:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 14:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		06/26/24 14:43	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-14

Lab Sample ID: 310-284268-3

Date Collected: 06/20/24 19:28

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		73 - 130		06/26/24 14:43	1
Toluene-d8 (Surr)	99		80 - 120		06/26/24 14:43	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00223		0.00200	0.00100	mg/L		06/27/24 09:00	07/12/24 17:14	1
Arsenic	0.00229		0.00200	0.000530	mg/L		06/27/24 09:00	07/12/24 17:14	1
Barium	0.213		0.00200	0.000660	mg/L		06/27/24 09:00	07/12/24 17:14	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/27/24 09:00	07/12/24 17:14	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/27/24 09:00	07/12/24 17:14	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/27/24 09:00	07/12/24 17:14	1
Cobalt	0.000410	J	0.000500	0.000170	mg/L		06/27/24 09:00	07/12/24 17:14	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/27/24 09:00	07/12/24 17:14	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/27/24 09:00	07/12/24 17:14	1
Nickel	0.00213	J	0.00500	0.00210	mg/L		06/27/24 09:00	07/14/24 19:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/27/24 09:00	07/12/24 17:14	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/27/24 09:00	07/12/24 17:14	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/24 09:00	07/12/24 17:14	1
Vanadium	0.00446	J	0.00500	0.00110	mg/L		06/27/24 09:00	07/12/24 17:14	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/27/24 09:00	07/12/24 17:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	11.3		1.88	1.39	mg/L			06/25/24 11:58	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-D

Lab Sample ID: 310-284268-4

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 15:06	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 15:06	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 15:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 15:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 15:06	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 15:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 15:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 15:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 15:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 15:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 15:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 15:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 15:06	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 15:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 15:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 15:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 15:06	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 15:06	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 15:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 15:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 15:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 15:06	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 15:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 15:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 15:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 15:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 15:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 15:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 15:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 15:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 15:06	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 15:06	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 15:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 15:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 15:06	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 15:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 15:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 15:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 15:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 15:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 15:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 15:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 15:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 15:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 15:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 15:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		06/26/24 15:06	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-D

Lab Sample ID: 310-284268-4

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		73 - 130		06/26/24 15:06	1
Toluene-d8 (Surr)	99		80 - 120		06/26/24 15:06	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/27/24 09:00	07/12/24 17:16	1
Arsenic	0.00700		0.00200	0.000530	mg/L		06/27/24 09:00	07/12/24 17:16	1
Barium	0.0149		0.00200	0.000660	mg/L		06/27/24 09:00	07/12/24 17:16	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/27/24 09:00	07/12/24 17:16	1
Cadmium	0.000498		0.000200	0.000100	mg/L		06/27/24 09:00	07/12/24 17:16	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/27/24 09:00	07/12/24 17:16	1
Cobalt	0.00209		0.000500	0.000170	mg/L		06/27/24 09:00	07/12/24 17:16	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/27/24 09:00	07/12/24 17:16	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/27/24 09:00	07/12/24 17:16	1
Nickel	0.0113		0.00500	0.00210	mg/L		06/27/24 09:00	07/14/24 19:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/27/24 09:00	07/12/24 17:16	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/27/24 09:00	07/12/24 17:16	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/24 09:00	07/12/24 17:16	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/27/24 09:00	07/12/24 17:16	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/27/24 09:00	07/12/24 17:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.50		1.88	1.39	mg/L			06/25/24 11:58	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-284268-5

Date Collected: 06/20/24 00:00

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 11:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 11:40	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 11:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 11:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 11:40	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 11:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 11:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 11:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 11:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 11:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 11:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 11:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 11:40	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 11:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 11:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 11:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 11:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 11:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 11:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 11:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 11:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 11:40	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 11:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 11:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 11:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 11:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 11:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 11:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 11:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 11:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 11:40	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 11:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 11:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 11:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 11:40	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 11:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 11:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 11:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 11:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 11:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 11:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 11:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 11:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 11:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 11:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 11:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		06/26/24 11:40	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-284268-5

Date Collected: 06/20/24 00:00

Matrix: Water

Date Received: 06/24/24 06:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane (Surr)	111		73 - 130		06/26/24 11:40	1
Toluene-d8 (Surr)	99		80 - 120		06/26/24 11:40	1

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Definitions/Glossary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(80-120)	(73-130)	(80-120)
310-284268-1	MW-10R	106	109	98
310-284268-2	MW-11A	105	110	99
310-284268-3	MW-14	101	115	99
310-284268-4	MW-D	101	111	99
310-284268-5	Trip Blank	106	111	99
LCS 310-425611/6	Lab Control Sample	100	98	102
LCS 310-425611/7	Lab Control Sample	102	110	99
MB 310-425611/5	Method Blank	104	111	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-425611/5
Matrix: Water
Analysis Batch: 425611

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0	3.10	ug/L			06/26/24 10:09	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			06/26/24 10:09	1
Benzene	<0.500		0.500	0.220	ug/L			06/26/24 10:09	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/26/24 10:09	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/26/24 10:09	1
Bromoform	<5.00		5.00	0.780	ug/L			06/26/24 10:09	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/26/24 10:09	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/26/24 10:09	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/26/24 10:09	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/26/24 10:09	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/26/24 10:09	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/26/24 10:09	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/26/24 10:09	1
Chloroform	<3.00		3.00	1.30	ug/L			06/26/24 10:09	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/26/24 10:09	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/26/24 10:09	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/26/24 10:09	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			06/26/24 10:09	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			06/26/24 10:09	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/26/24 10:09	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/26/24 10:09	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/26/24 10:09	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/26/24 10:09	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/26/24 10:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/26/24 10:09	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/26/24 10:09	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/26/24 10:09	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/26/24 10:09	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/26/24 10:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			06/26/24 10:09	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/26/24 10:09	1
Styrene	<1.00		1.00	0.370	ug/L			06/26/24 10:09	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/26/24 10:09	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/26/24 10:09	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/26/24 10:09	1
Toluene	<1.00		1.00	0.430	ug/L			06/26/24 10:09	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/26/24 10:09	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/26/24 10:09	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/26/24 10:09	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/26/24 10:09	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/26/24 10:09	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/26/24 10:09	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/26/24 10:09	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/26/24 10:09	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/26/24 10:09	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/26/24 10:09	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/26/24 10:09	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-425611/5

Matrix: Water

Analysis Batch: 425611

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		80 - 120		06/26/24 10:09	1
Dibromofluoromethane (Surr)	111		73 - 130		06/26/24 10:09	1
Toluene-d8 (Surr)	98		80 - 120		06/26/24 10:09	1

Lab Sample ID: LCS 310-425611/6

Matrix: Water

Analysis Batch: 425611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrylonitrile	200	207.5		ug/L		104	50 - 150
Benzene	20.0	18.34		ug/L		92	72 - 124
Bromochloromethane	20.0	17.80		ug/L		89	73 - 130
Bromodichloromethane	20.0	17.28		ug/L		86	74 - 122
Bromoform	20.0	15.95		ug/L		80	61 - 122
2-Butanone (MEK)	40.0	41.65		ug/L		104	50 - 150
Carbon disulfide	20.0	18.52		ug/L		93	59 - 135
Carbon tetrachloride	20.0	18.36		ug/L		92	67 - 132
Chlorobenzene	20.0	17.97		ug/L		90	76 - 120
Chlorodibromomethane	20.0	17.62		ug/L		88	71 - 121
Chloroform	20.0	18.20		ug/L		91	72 - 125
cis-1,2-Dichloroethene	20.0	17.50		ug/L		87	74 - 123
cis-1,3-Dichloropropene	20.0	17.73		ug/L		89	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	17.06		ug/L		85	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.85		ug/L		94	75 - 125
Dibromomethane	20.0	17.85		ug/L		89	74 - 125
1,2-Dichlorobenzene	20.0	18.07		ug/L		90	74 - 120
1,4-Dichlorobenzene	20.0	17.76		ug/L		89	72 - 120
1,1-Dichloroethane	20.0	19.28		ug/L		96	70 - 127
1,2-Dichloroethane	20.0	19.16		ug/L		96	71 - 125
1,1-Dichloroethene	20.0	16.90		ug/L		84	63 - 132
1,2-Dichloropropane	20.0	19.37		ug/L		97	73 - 124
Ethylbenzene	20.0	18.50		ug/L		92	74 - 122
2-Hexanone	40.0	37.97		ug/L		95	60 - 140
Iodomethane	20.0	10.59		ug/L		53	10 - 150
Methylene Chloride	20.0	19.38		ug/L		97	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	40.73		ug/L		102	60 - 139
Styrene	20.0	18.11		ug/L		91	74 - 121
1,1,1,2-Tetrachloroethane	20.0	17.92		ug/L		90	71 - 120
1,1,2,2-Tetrachloroethane	20.0	17.82		ug/L		89	68 - 124
Tetrachloroethene	20.0	19.13		ug/L		96	71 - 130
Toluene	20.0	18.53		ug/L		93	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.16		ug/L		81	50 - 150
trans-1,2-Dichloroethene	20.0	17.66		ug/L		88	70 - 126
trans-1,3-Dichloropropene	20.0	16.29		ug/L		81	69 - 123
1,1,1-Trichloroethane	20.0	18.52		ug/L		93	73 - 129
1,1,2-Trichloroethane	20.0	18.44		ug/L		92	73 - 123
Trichloroethene	20.0	18.36		ug/L		92	72 - 126

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-425611/6
Matrix: Water
Analysis Batch: 425611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	18.65		ug/L		93	65 - 127
Vinyl acetate	40.0	34.27		ug/L		86	50 - 150
Xylenes, Total	40.0	36.51		ug/L		91	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	98		73 - 130
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCS 310-425611/7
Matrix: Water
Analysis Batch: 425611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.32		ug/L		77	23 - 150
Chloroethane	20.0	21.31		ug/L		107	54 - 136
Chloromethane	20.0	20.22		ug/L		101	38 - 150
Trichlorofluoromethane	20.0	24.41		ug/L		122	54 - 149
Vinyl chloride	20.0	21.28		ug/L		106	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	110		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-425733/1-A
Matrix: Water
Analysis Batch: 427169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/27/24 09:00	07/12/24 13:46	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/27/24 09:00	07/12/24 13:46	1
Barium	<0.00200		0.00200	0.000660	mg/L		06/27/24 09:00	07/12/24 13:46	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/27/24 09:00	07/12/24 13:46	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/27/24 09:00	07/12/24 13:46	1
Chromium	<0.00500		0.00500	0.00120	mg/L		06/27/24 09:00	07/12/24 13:46	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/27/24 09:00	07/12/24 13:46	1
Copper	<0.00500		0.00500	0.00180	mg/L		06/27/24 09:00	07/12/24 13:46	1
Lead	<0.000500		0.000500	0.000260	mg/L		06/27/24 09:00	07/12/24 13:46	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/27/24 09:00	07/12/24 13:46	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/27/24 09:00	07/12/24 13:46	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/24 09:00	07/12/24 13:46	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		06/27/24 09:00	07/12/24 13:46	1
Zinc	<0.0200		0.0200	0.00970	mg/L		06/27/24 09:00	07/12/24 13:46	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-425733/1-A
 Matrix: Water
 Analysis Batch: 427230

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 425733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00210	mg/L		06/27/24 09:00	07/14/24 19:23	1

Lab Sample ID: LCS 310-425733/2-A
 Matrix: Water
 Analysis Batch: 427169

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 425733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2327		mg/L		116	80 - 120
Arsenic	0.200	0.2216		mg/L		111	80 - 120
Barium	0.100	0.1135		mg/L		114	80 - 120
Beryllium	0.100	0.1077		mg/L		108	80 - 120
Cadmium	0.100	0.1073		mg/L		107	80 - 120
Chromium	0.100	0.1067		mg/L		107	80 - 120
Cobalt	0.100	0.1105		mg/L		111	80 - 120
Copper	0.200	0.2140		mg/L		107	80 - 120
Lead	0.200	0.2178		mg/L		109	80 - 120
Selenium	0.400	0.4270		mg/L		107	80 - 120
Silver	0.100	0.1079		mg/L		108	80 - 120
Thallium	0.100	0.1137		mg/L		114	80 - 120
Vanadium	0.100	0.1042		mg/L		104	80 - 120
Zinc	0.200	0.2019		mg/L		101	80 - 120

Lab Sample ID: LCS 310-425733/2-A
 Matrix: Water
 Analysis Batch: 427230

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 425733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.2059		mg/L		103	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-425556/1
 Matrix: Water
 Analysis Batch: 425556

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			06/25/24 10:39	1

Lab Sample ID: LCS 310-425556/2
 Matrix: Water
 Analysis Batch: 425556

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	81 - 116

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: MB 310-425581/1
Matrix: Water
Analysis Batch: 425581

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			06/25/24 11:58	1

Lab Sample ID: LCS 310-425581/2
Matrix: Water
Analysis Batch: 425581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	97.00		mg/L		97	81 - 116



QC Association Summary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

GC/MS VOA

Analysis Batch: 425611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-1	MW-10R	Total/NA	Water	8260D	
310-284268-2	MW-11A	Total/NA	Water	8260D	
310-284268-3	MW-14	Total/NA	Water	8260D	
310-284268-4	MW-D	Total/NA	Water	8260D	
310-284268-5	Trip Blank	Total/NA	Water	8260D	
MB 310-425611/5	Method Blank	Total/NA	Water	8260D	
LCS 310-425611/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-425611/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 425733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-1	MW-10R	Total/NA	Water	3005A	
310-284268-2	MW-11A	Total/NA	Water	3005A	
310-284268-3	MW-14	Total/NA	Water	3005A	
310-284268-4	MW-D	Total/NA	Water	3005A	
MB 310-425733/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-425733/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 427169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-425733/1-A	Method Blank	Total/NA	Water	6020B	425733
LCS 310-425733/2-A	Lab Control Sample	Total/NA	Water	6020B	425733

Analysis Batch: 427207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-1	MW-10R	Total/NA	Water	6020B	425733
310-284268-2	MW-11A	Total/NA	Water	6020B	425733
310-284268-3	MW-14	Total/NA	Water	6020B	425733
310-284268-4	MW-D	Total/NA	Water	6020B	425733

Analysis Batch: 427230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-1	MW-10R	Total/NA	Water	6020B	425733
310-284268-2	MW-11A	Total/NA	Water	6020B	425733
310-284268-3	MW-14	Total/NA	Water	6020B	425733
310-284268-4	MW-D	Total/NA	Water	6020B	425733
MB 310-425733/1-A	Method Blank	Total/NA	Water	6020B	425733
LCS 310-425733/2-A	Lab Control Sample	Total/NA	Water	6020B	425733

General Chemistry

Analysis Batch: 425556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-1	MW-10R	Total/NA	Water	I-3765-85	
MB 310-425556/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-425556/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 425581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-2	MW-11A	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers

Job ID: 310-284268-1

Project/Site: Harrison County Landfill 1st 2024 GW

General Chemistry (Continued)

Analysis Batch: 425581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-284268-3	MW-14	Total/NA	Water	I-3765-85	
310-284268-4	MW-D	Total/NA	Water	I-3765-85	
MB 310-425581/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-425581/2	Lab Control Sample	Total/NA	Water	I-3765-85	

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Lab Chronicle

Client: SCS Engineers
 Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: MW-10R

Lab Sample ID: 310-284268-1

Date Collected: 06/20/24 14:24

Matrix: Water

Date Received: 06/24/24 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	425611	FE5V	EET CF	06/26/24 13:58
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427230	NFT2	EET CF	07/14/24 19:40
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427207	A6US	EET CF	07/12/24 17:10
Total/NA	Analysis	I-3765-85		1	425556	DGU1	EET CF	06/25/24 10:39

Client Sample ID: MW-11A

Lab Sample ID: 310-284268-2

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	425611	FE5V	EET CF	06/26/24 14:20
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427230	NFT2	EET CF	07/14/24 19:44
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427207	A6US	EET CF	07/12/24 17:12
Total/NA	Analysis	I-3765-85		1	425581	DGU1	EET CF	06/25/24 11:58

Client Sample ID: MW-14

Lab Sample ID: 310-284268-3

Date Collected: 06/20/24 19:28

Matrix: Water

Date Received: 06/24/24 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	425611	FE5V	EET CF	06/26/24 14:43
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427230	NFT2	EET CF	07/14/24 19:47
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427207	A6US	EET CF	07/12/24 17:14
Total/NA	Analysis	I-3765-85		1	425581	DGU1	EET CF	06/25/24 11:58

Client Sample ID: MW-D

Lab Sample ID: 310-284268-4

Date Collected: 06/20/24 13:44

Matrix: Water

Date Received: 06/24/24 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	425611	FE5V	EET CF	06/26/24 15:06
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427230	NFT2	EET CF	07/14/24 19:51
Total/NA	Prep	3005A			425733	QTZ5	EET CF	06/27/24 09:00
Total/NA	Analysis	6020B		1	427207	A6US	EET CF	07/12/24 17:16
Total/NA	Analysis	I-3765-85		1	425581	DGU1	EET CF	06/25/24 11:58

Lab Chronicle

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-284268-5

Date Collected: 06/20/24 00:00

Matrix: Water

Date Received: 06/24/24 06:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	425611	FE5V	EET CF	06/26/24 11:40

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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Accreditation/Certification Summary

Client: SCS Engineers

Job ID: 310-284268-1

Project/Site: Harrison County Landfill 1st 2024 GW

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

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Method Summary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401





Environment Testing
America



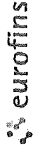
310-284268 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS Engineers</u>			
City/State:	<u>WDM</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>6.24.24</u>	TIME <u>0600</u>	Received By: <u>CGC</u>
Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>MW-10R MW-11A MW-14 MW-0</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.9</u>		Corrected Temp (°C): <u>0.9</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			
<u>Samples not located: MW 6A MW 13R MW-16</u> <u>MW 17</u>			

Chain of Custody Record

TestAmerica Des Moines SC
 214



Client Information		Lab PM Yang, Mary E		Carrier Tracking No(s) COC No: 310-94235-25670 1	
Client Contact Sean Marczewski		E-Mail: Mary Yang@ET EurofinsUS.com		Page: Page 1 of 1	
Company SCS Engineers		Address 1690 All State Court Suite 100		State of Origin: Job #:	
City West Des Moines		TAT Requested (days):		Preservation Codes: D - HNO3 A - HCL N - None	
State Zip: IA, 50265		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 27221289 24		PO #: 27221289 24		Total Number of Containers	
Email: SMarczewski@scsengineers.com		WO #:		Special Instructions/Note:	
Project Name: Harrison County Landfill 1st 2024 GW		Project #: 31013809			
Site:		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=biological, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B - Appendix I	8260D - Volatile Appendix 1 Sublist	1766.86 - Residue, Non-Filterable (TSS)	Analysis Requested
					D	N	A	N				
MW-8A				Water					X	X		
MW-10R	6/20/24	14:24		Water					X	X		
MW-11A	6/20/24	3:44		Water					X	X		
MW-13R				Water					X	X		
MW-14	6/20/24	9:28		Water					X	X		
MW-16				Water					X	X		
MW-17				Water					X	X		
MW-D	6/20/24	13:44		Water					X	X		
Trip Blank				Water					X			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-284268-1

SDG Number:

Login Number: 284268

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Harrison County Landfill 1st 2024 GW

Job ID: 310-284268-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

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ANALYTICAL REPORT

PREPARED FOR

Attn: Sean Marczewski
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 11/25/2024 11:04:59 PM

JOB DESCRIPTION

Harrison County Fall 2024 GW
Harrison County Landfill

JOB NUMBER

310-295278-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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11/25/2024 11:04:59 PM

Authorized for release by
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Samuel.Miller@et.eurofinsus.com
(319)277-2401



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Case Narrative

Client: SCS Engineers
Project: Harrison County Fall 2024 GW

Job ID: 310-295278-1

Job ID: 310-295278-1

Eurofins Cedar Falls

Job Narrative 310-295278-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/14/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.8°C, 3.1°C and 4.7°C.

GC/MS VOA

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: Trip blank 2 (310-295278-10) and Trip blank 3 (310-295278-11). The requested target analyte list includes Acrylonitrile, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-440064 recovered above the upper control limit for Ethyl parathion (24.4%D), Phenacetin (21.6%D), Di-n-butyl phthalate (21.5%D), Pronamide (22.5%D), Methyl parathion (39.3%D), 3-Nitroaniline (20.3%D), 5-Nitro-o-toluidine (28.2%D), Disulfoton (23.8%D), Pentachloronitrobenzene (25.6%D), Phorate (22.1%D), Hexachloropropene (32.4%D), Di-n-octyl phthalate (23.2%D) and 2-Nitrophenol (24.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-440213 recovered above the upper control limit for 4-Chloroaniline (28.0%D), 1,3-Dinitrobenzene (28.2%D), Benzyl alcohol (23.5%D) and Di-n-octyl phthalate (23.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A: Surrogate recovery for the following sample was outside the upper control limit: MW-5A (310-295278-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A: Surrogate recovery for the following sample was outside control limits: MW-4A (310-295278-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B: The laboratory control sample (LCS) for preparation batch 310-439905 and analytical batch 310-440622 recovered outside control limits for the following analytes: Aldrin, alpha-BHC, gamma-BHC (Lindane) and Heptachlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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Case Narrative

Client: SCS Engineers
Project: Harrison County Fall 2024 GW

Job ID: 310-295278-1

Job ID: 310-295278-1 (Continued)

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No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 9034: Certified Reference Materials (CRM) and Standard Reference Materials (SRM) are not available for potassium iodate. Standards from an authoritative source have been used for calibration. The initial calibrations have been verified with a standard from an authoritative, independent, second source.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Sample Summary

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-295278-1	MW-4A	Water	11/12/24 10:58	11/14/24 16:20
310-295278-2	MW-5A	Water	11/13/24 13:04	11/14/24 16:20
310-295278-3	MW-8A	Water	11/13/24 12:14	11/14/24 16:20
310-295278-4	MW-10R	Water	11/12/24 13:42	11/14/24 16:20
310-295278-5	MW-11A	Water	11/13/24 11:28	11/14/24 16:20
310-295278-6	MW-13R	Water	11/12/24 11:53	11/14/24 16:20
310-295278-7	MW-14	Water	11/12/24 12:59	11/14/24 16:20
310-295278-8	MW-D	Water	11/13/24 11:28	11/14/24 16:20
310-295278-9	Trip blank 1	Water	11/13/24 00:00	11/14/24 16:20
310-295278-10	Trip blank 2	Water	11/13/24 00:00	11/14/24 16:20
310-295278-11	Trip blank 3	Water	11/13/24 00:00	11/14/24 16:20

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Detection Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A

Lab Sample ID: 310-295278-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	15.9		10.0	5.60	ug/L	1		8270E	Total/NA
Arsenic	0.00154	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.620		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.32		1.00	0.450	ug/L	1		8260D	Total/NA
Arsenic	0.00769		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.560		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000365		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.0168		0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.0217		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00215		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0638		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00508		0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0272		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	570		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-8A

Lab Sample ID: 310-295278-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.451	J	1.00	0.450	ug/L	1		8260D	Total/NA
Antimony	0.00203		0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.0408		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.139		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.0170		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0274		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.0245		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00356		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0569		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000724	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Vanadium	0.00478	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0577		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	303		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10R

Lab Sample ID: 310-295278-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000674	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0644		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000190	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Selenium	0.00636		0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00204	J	0.00500	0.00110	mg/L	1		6020B	Total/NA

Client Sample ID: MW-11A

Lab Sample ID: 310-295278-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00611		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0182		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000415		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00201		0.000500	0.000170	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-11A (Continued)

Lab Sample ID: 310-295278-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.000320	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0103		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	73.3		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13R

Lab Sample ID: 310-295278-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00140	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0969		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000352	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	50.7		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-295278-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21.5		10.0	3.10	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	3.96	J	10.0	2.10	ug/L	1		8260D	Total/NA
Carbon disulfide	1.19		1.00	0.450	ug/L	1		8260D	Total/NA
Arsenic	0.00198	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.199		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000221	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-295278-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00623		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0158		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000385		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00205		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0105		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	466		30.0	22.2	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip blank 1

Lab Sample ID: 310-295278-9

No Detections.

Client Sample ID: Trip blank 2

Lab Sample ID: 310-295278-10

No Detections.

Client Sample ID: Trip blank 3

Lab Sample ID: 310-295278-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A
Date Collected: 11/12/24 10:58
Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/16/24 19:02	1
Acrolein	<10.0		10.0	3.60	ug/L			11/16/24 19:02	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/16/24 19:02	1
Allyl chloride	<2.00		2.00	0.700	ug/L			11/16/24 19:02	1
Benzene	<0.500		0.500	0.220	ug/L			11/16/24 19:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/16/24 19:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/16/24 19:02	1
Bromoform	<5.00		5.00	0.780	ug/L			11/16/24 19:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/16/24 19:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/16/24 19:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/16/24 19:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/16/24 19:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/16/24 19:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/16/24 19:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/16/24 19:02	1
Chloroform	<3.00		3.00	1.30	ug/L			11/16/24 19:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/16/24 19:02	1
Chloroprene	<1.00		1.00	0.230	ug/L			11/16/24 19:02	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/16/24 19:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/16/24 19:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/16/24 19:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/16/24 19:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/16/24 19:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/16/24 19:02	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			11/16/24 19:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/16/24 19:02	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			11/16/24 19:02	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/16/24 19:02	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/16/24 19:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/16/24 19:02	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/16/24 19:02	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			11/16/24 19:02	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			11/16/24 19:02	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			11/16/24 19:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/16/24 19:02	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			11/16/24 19:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/16/24 19:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/16/24 19:02	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			11/16/24 19:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/16/24 19:02	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			11/16/24 19:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/16/24 19:02	1
Naphthalene	<5.00		5.00	3.00	ug/L			11/16/24 19:02	1
Propionitrile	<10.0		10.0	3.40	ug/L			11/16/24 19:02	1
Styrene	<1.00		1.00	0.370	ug/L			11/16/24 19:02	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/16/24 19:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/16/24 19:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/16/24 19:02	1
Toluene	<1.00		1.00	0.430	ug/L			11/16/24 19:02	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A

Lab Sample ID: 310-295278-1

Date Collected: 11/12/24 10:58

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/16/24 19:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/16/24 19:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/16/24 19:02	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			11/16/24 19:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/16/24 19:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/16/24 19:02	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/16/24 19:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/16/24 19:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/16/24 19:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/16/24 19:02	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/16/24 19:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/16/24 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120					11/16/24 19:02	1
Dibromofluoromethane (Surr)	107		73 - 130					11/16/24 19:02	1
Toluene-d8 (Surr)	91		80 - 120					11/16/24 19:02	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 19:52	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 19:52	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		11/18/24 06:40	11/18/24 19:52	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		11/18/24 06:40	11/18/24 19:52	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		11/18/24 06:40	11/18/24 19:52	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 19:52	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A
 Date Collected: 11/12/24 10:58
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-1
 Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
Acenaphthene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 19:52	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 19:52	1
Acetophenone	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 19:52	1
Anthracene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 19:52	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		11/18/24 06:40	11/18/24 19:52	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 19:52	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		11/18/24 06:40	11/18/24 19:52	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		11/18/24 06:40	11/18/24 19:52	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
Chrysene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 19:52	1
Diallate	<10.0		10.0	4.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		11/18/24 06:40	11/18/24 19:52	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
Dimethoate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
Di-n-butyl phthalate	15.9		10.0	5.60	ug/L		11/18/24 06:40	11/19/24 17:20	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
Diphenylamine	<10.0		10.0	6.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
Disulfoton	<10.0		10.0	2.40	ug/L		11/18/24 06:40	11/18/24 19:52	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
Famphur	<10.0		10.0	3.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
Fluoranthene	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
Fluorene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 19:52	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 19:52	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		11/18/24 06:40	11/18/24 19:52	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		11/18/24 06:40	11/18/24 19:52	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		11/18/24 06:40	11/18/24 19:52	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
Isodrin	<10.0		10.0	4.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
Isophorone	<10.0		10.0	0.930	ug/L		11/18/24 06:40	11/18/24 19:52	1
Isosafrole	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 19:52	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A
Date Collected: 11/12/24 10:58
Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kepone	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 19:52	1
Methapyrilene	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 19:52	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
Methyl parathion	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 19:52	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
o,o',o"-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
o-Toluidine	<10.0		10.0	2.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		11/18/24 06:40	11/18/24 19:52	1
Phenacetin	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 19:52	1
Phenanthrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 19:52	1
Phenol	<10.0		10.0	1.10	ug/L		11/18/24 06:40	11/18/24 19:52	1
Phorate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 19:52	1
Pronamide	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 19:52	1
Pyrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 19:52	1
Safrole	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 19:52	1
Thionazin	<10.0		10.0	3.50	ug/L		11/18/24 06:40	11/18/24 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	65		25 - 110	11/18/24 06:40	11/18/24 19:52	1
Phenol-d5 (Surr)	58		21 - 110	11/18/24 06:40	11/18/24 19:52	1
Nitrobenzene-d5 (Surr)	91		45 - 129	11/18/24 06:40	11/18/24 19:52	1
2-Fluorobiphenyl (Surr)	86		39 - 118	11/18/24 06:40	11/18/24 19:52	1
2,4,6-Tribromophenol (Surr)	65		27 - 136	11/18/24 06:40	11/18/24 19:52	1
Terphenyl-d14 (Surr)	63		12 - 144	11/18/24 06:40	11/18/24 19:52	1

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			11/18/24 13:59	1
Isobutanol	<10.0		10.0	2.40	mg/L			11/18/24 13:59	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0916	*+	0.0916	0.0202	ug/L		11/15/24 13:25	11/22/24 12:27	1
alpha-BHC	<0.0916	*+	0.0916	0.00916	ug/L		11/15/24 13:25	11/22/24 12:27	1
beta-BHC	<0.0916		0.0916	0.0385	ug/L		11/15/24 13:25	11/22/24 12:27	1
gamma-BHC (Lindane)	<0.0916	*+	0.0916	0.00916	ug/L		11/15/24 13:25	11/22/24 12:27	1
Chlordane (technical)	<1.83		1.83	0.357	ug/L		11/15/24 13:25	11/22/24 12:27	1
delta-BHC	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 12:27	1
Dieldrin	<0.0916		0.0916	0.0192	ug/L		11/15/24 13:25	11/22/24 12:27	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: MW-4A
Date Collected: 11/12/24 10:58
Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-1
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0916		0.0916	0.0229	ug/L		11/15/24 13:25	11/22/24 12:27	1
4,4'-DDE	<0.0916		0.0916	0.0275	ug/L		11/15/24 13:25	11/22/24 12:27	1
4,4'-DDT	<0.0916		0.0916	0.0183	ug/L		11/15/24 13:25	11/22/24 12:27	1
Endosulfan I	<0.0916		0.0916	0.0257	ug/L		11/15/24 13:25	11/22/24 12:27	1
Endosulfan II	<0.0916		0.0916	0.0238	ug/L		11/15/24 13:25	11/22/24 12:27	1
Endosulfan sulfate	<0.0916		0.0916	0.0165	ug/L		11/15/24 13:25	11/22/24 12:27	1
Endrin	<0.0916		0.0916	0.0257	ug/L		11/15/24 13:25	11/22/24 12:27	1
Endrin aldehyde	<0.0916		0.0916	0.0247	ug/L		11/15/24 13:25	11/22/24 12:27	1
Heptachlor	<0.0916	*+	0.0916	0.0211	ug/L		11/15/24 13:25	11/22/24 12:27	1
Heptachlor epoxide	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 12:27	1
Methoxychlor	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 12:27	1
Toxaphene	<1.83		1.83	0.916	ug/L		11/15/24 13:25	11/22/24 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		10 - 136				11/15/24 13:25	11/22/24 12:27	1
Tetrachloro-m-xylene (Surr)	141	S1+	10 - 130				11/15/24 13:25	11/22/24 12:27	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1221	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1232	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1242	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1248	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1254	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1260	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 12:27	1
PCB-1268	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	62		10 - 136				11/15/24 13:25	11/22/24 12:27	1
Tetrachloro-m-xylene (Surr)	141	S1+	10 - 130				11/15/24 13:25	11/22/24 12:27	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.01		1.01	0.311	ug/L		11/19/24 12:09	11/21/24 17:48	1
Silvex (2,4,5-TP)	<1.01		1.01	0.0844	ug/L		11/19/24 12:09	11/21/24 17:48	1
2,4,5-T	<1.01		1.01	0.146	ug/L		11/19/24 12:09	11/21/24 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCAA	62		25 - 130				11/19/24 12:09	11/21/24 17:48	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:11	1
Arsenic	0.00154	J	0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:11	1
Barium	0.620		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:11	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:11	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:11	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:11	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A

Lab Sample ID: 310-295278-1

Date Collected: 11/12/24 10:58

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:11	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:11	1
Tin	<0.00500		0.00500	0.00230	mg/L		11/19/24 09:30	11/19/24 19:11	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:11	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		11/21/24 15:25	11/22/24 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		11/18/24 09:00	11/18/24 21:31	1
Sulfide (SW846 9034)	<10.0		10.0	10.0	mg/L		11/19/24 07:50	11/19/24 11:02	1
Total Suspended Solids (USGS I-3765-85)	7.00		1.88	1.39	mg/L			11/15/24 17:27	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/16/24 19:25	1
Acrolein	<10.0		10.0	3.60	ug/L			11/16/24 19:25	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/16/24 19:25	1
Allyl chloride	<2.00		2.00	0.700	ug/L			11/16/24 19:25	1
Benzene	<0.500		0.500	0.220	ug/L			11/16/24 19:25	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/16/24 19:25	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/16/24 19:25	1
Bromoform	<5.00		5.00	0.780	ug/L			11/16/24 19:25	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/16/24 19:25	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/16/24 19:25	1
Carbon disulfide	1.32		1.00	0.450	ug/L			11/16/24 19:25	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/16/24 19:25	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/16/24 19:25	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/16/24 19:25	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/16/24 19:25	1
Chloroform	<3.00		3.00	1.30	ug/L			11/16/24 19:25	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/16/24 19:25	1
Chloroprene	<1.00		1.00	0.230	ug/L			11/16/24 19:25	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/16/24 19:25	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/16/24 19:25	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/16/24 19:25	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/16/24 19:25	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/16/24 19:25	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/16/24 19:25	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			11/16/24 19:25	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/16/24 19:25	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			11/16/24 19:25	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/16/24 19:25	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/16/24 19:25	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/16/24 19:25	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/16/24 19:25	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			11/16/24 19:25	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			11/16/24 19:25	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			11/16/24 19:25	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/16/24 19:25	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			11/16/24 19:25	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/16/24 19:25	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/16/24 19:25	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			11/16/24 19:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/16/24 19:25	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			11/16/24 19:25	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/16/24 19:25	1
Naphthalene	<5.00		5.00	3.00	ug/L			11/16/24 19:25	1
Propionitrile	<10.0		10.0	3.40	ug/L			11/16/24 19:25	1
Styrene	<1.00		1.00	0.370	ug/L			11/16/24 19:25	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/16/24 19:25	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/16/24 19:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/16/24 19:25	1
Toluene	<1.00		1.00	0.430	ug/L			11/16/24 19:25	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/16/24 19:25	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/16/24 19:25	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/16/24 19:25	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			11/16/24 19:25	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/16/24 19:25	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/16/24 19:25	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/16/24 19:25	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/16/24 19:25	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/16/24 19:25	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/16/24 19:25	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/16/24 19:25	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/16/24 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120					11/16/24 19:25	1
Dibromofluoromethane (Surr)	115		73 - 130					11/16/24 19:25	1
Toluene-d8 (Surr)	91		80 - 120					11/16/24 19:25	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 20:19	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 20:19	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		11/18/24 06:40	11/18/24 20:19	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		11/18/24 06:40	11/18/24 20:19	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		11/18/24 06:40	11/18/24 20:19	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 20:19	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
Acenaphthene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 20:19	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 20:19	1
Acetophenone	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 20:19	1
Anthracene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 20:19	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		11/18/24 06:40	11/18/24 20:19	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 20:19	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		11/18/24 06:40	11/18/24 20:19	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		11/18/24 06:40	11/18/24 20:19	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Chrysene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 20:19	1
Diallate	<10.0		10.0	4.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		11/18/24 06:40	11/18/24 20:19	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
Dimethoate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
Diphenylamine	<10.0		10.0	6.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
Disulfoton	<10.0		10.0	2.40	ug/L		11/18/24 06:40	11/18/24 20:19	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
Famphur	<10.0		10.0	3.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
Fluoranthene	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
Fluorene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 20:19	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 20:19	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		11/18/24 06:40	11/18/24 20:19	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		11/18/24 06:40	11/18/24 20:19	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		11/18/24 06:40	11/18/24 20:19	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
Isodrin	<10.0		10.0	4.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
Isophorone	<10.0		10.0	0.930	ug/L		11/18/24 06:40	11/18/24 20:19	1
Isosafrole	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 20:19	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kepone	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 20:19	1
Methapyrilene	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 20:19	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
Methyl parathion	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 20:19	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
o,o',o"-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
o-Toluidine	<10.0		10.0	2.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		11/18/24 06:40	11/18/24 20:19	1
Phenacetin	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 20:19	1
Phenanthrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 20:19	1
Phenol	<10.0		10.0	1.10	ug/L		11/18/24 06:40	11/18/24 20:19	1
Phorate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 20:19	1
Pronamide	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 20:19	1
Pyrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 20:19	1
Safrole	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 20:19	1
Thionazin	<10.0		10.0	3.50	ug/L		11/18/24 06:40	11/18/24 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	59		25 - 110	11/18/24 06:40	11/18/24 20:19	1
Phenol-d5 (Surr)	49		21 - 110	11/18/24 06:40	11/18/24 20:19	1
Nitrobenzene-d5 (Surr)	77		45 - 129	11/18/24 06:40	11/18/24 20:19	1
2-Fluorobiphenyl (Surr)	74		39 - 118	11/18/24 06:40	11/18/24 20:19	1
2,4,6-Tribromophenol (Surr)	65		27 - 136	11/18/24 06:40	11/18/24 20:19	1
Terphenyl-d14 (Surr)	45		12 - 144	11/18/24 06:40	11/18/24 20:19	1

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			11/18/24 14:20	1
Isobutanol	<10.0		10.0	2.40	mg/L			11/18/24 14:20	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0907	++	0.0907	0.0199	ug/L		11/15/24 13:25	11/22/24 12:46	1
alpha-BHC	<0.0907	++	0.0907	0.00907	ug/L		11/15/24 13:25	11/22/24 12:46	1
beta-BHC	<0.0907		0.0907	0.0381	ug/L		11/15/24 13:25	11/22/24 12:46	1
gamma-BHC (Lindane)	<0.0907	++	0.0907	0.00907	ug/L		11/15/24 13:25	11/22/24 12:46	1
Chlordane (technical)	<1.81		1.81	0.354	ug/L		11/15/24 13:25	11/22/24 12:46	1
delta-BHC	<0.0907		0.0907	0.0290	ug/L		11/15/24 13:25	11/22/24 12:46	1
Dieldrin	<0.0907		0.0907	0.0190	ug/L		11/15/24 13:25	11/22/24 12:46	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0907		0.0907	0.0227	ug/L		11/15/24 13:25	11/22/24 12:46	1
4,4'-DDE	<0.0907		0.0907	0.0272	ug/L		11/15/24 13:25	11/22/24 12:46	1
4,4'-DDT	<0.0907		0.0907	0.0181	ug/L		11/15/24 13:25	11/22/24 12:46	1
Endosulfan I	<0.0907		0.0907	0.0254	ug/L		11/15/24 13:25	11/22/24 12:46	1
Endosulfan II	<0.0907		0.0907	0.0236	ug/L		11/15/24 13:25	11/22/24 12:46	1
Endosulfan sulfate	<0.0907		0.0907	0.0163	ug/L		11/15/24 13:25	11/22/24 12:46	1
Endrin	<0.0907		0.0907	0.0254	ug/L		11/15/24 13:25	11/22/24 12:46	1
Endrin aldehyde	<0.0907		0.0907	0.0245	ug/L		11/15/24 13:25	11/22/24 12:46	1
Heptachlor	<0.0907	*+	0.0907	0.0209	ug/L		11/15/24 13:25	11/22/24 12:46	1
Heptachlor epoxide	<0.0907		0.0907	0.0290	ug/L		11/15/24 13:25	11/22/24 12:46	1
Methoxychlor	<0.0907		0.0907	0.0290	ug/L		11/15/24 13:25	11/22/24 12:46	1
Toxaphene	<1.81		1.81	0.907	ug/L		11/15/24 13:25	11/22/24 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	87		10 - 136				11/15/24 13:25	11/22/24 12:46	1
Tetrachloro-m-xylene (Surr)	128		10 - 130				11/15/24 13:25	11/22/24 12:46	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.81		1.81	0.744	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1221	<1.81		1.81	0.744	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1232	<1.81		1.81	0.744	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1242	<1.81		1.81	0.744	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1248	<1.81		1.81	0.626	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1254	<1.81		1.81	0.626	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1260	<1.81		1.81	0.626	ug/L		11/15/24 13:25	11/22/24 12:46	1
PCB-1268	<1.81		1.81	0.626	ug/L		11/15/24 13:25	11/22/24 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	87		10 - 136				11/15/24 13:25	11/22/24 12:46	1
Tetrachloro-m-xylene (Surr)	128		10 - 130				11/15/24 13:25	11/22/24 12:46	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.02		1.02	0.312	ug/L		11/19/24 12:09	11/21/24 18:06	1
Silvex (2,4,5-TP)	<1.02		1.02	0.0849	ug/L		11/19/24 12:09	11/21/24 18:06	1
2,4,5-T	<1.02		1.02	0.147	ug/L		11/19/24 12:09	11/21/24 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCAA	773	S1+	25 - 130				11/19/24 12:09	11/21/24 18:06	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:28	1
Arsenic	0.00769		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:28	1
Barium	0.560		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:28	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:28	1
Cadmium	0.000365		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:28	1
Chromium	0.0168		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:28	1
Cobalt	0.0217		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:28	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:28	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A

Lab Sample ID: 310-295278-2

Date Collected: 11/13/24 13:04

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00215		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:28	1
Nickel	0.0638		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:28	1
Tin	<0.00500		0.00500	0.00230	mg/L		11/19/24 09:30	11/19/24 19:28	1
Vanadium	0.00508		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:28	1
Zinc	0.0272		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		11/21/24 15:25	11/22/24 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		11/18/24 09:00	11/18/24 21:32	1
Sulfide (SW846 9034)	<10.0		10.0	10.0	mg/L		11/19/24 07:50	11/19/24 11:02	1
Total Suspended Solids (USGS I-3765-85)	570		15.0	11.1	mg/L			11/15/24 20:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: MW-8A

Lab Sample ID: 310-295278-3

Date Collected: 11/13/24 12:14

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/16/24 19:48	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/16/24 19:48	1
Benzene	<0.500		0.500	0.220	ug/L			11/16/24 19:48	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/16/24 19:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/16/24 19:48	1
Bromoform	<5.00		5.00	0.780	ug/L			11/16/24 19:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/16/24 19:48	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/16/24 19:48	1
Carbon disulfide	0.451	J	1.00	0.450	ug/L			11/16/24 19:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/16/24 19:48	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/16/24 19:48	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/16/24 19:48	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/16/24 19:48	1
Chloroform	<3.00		3.00	1.30	ug/L			11/16/24 19:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/16/24 19:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/16/24 19:48	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/16/24 19:48	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/16/24 19:48	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/16/24 19:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/16/24 19:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/16/24 19:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/16/24 19:48	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/16/24 19:48	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/16/24 19:48	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/16/24 19:48	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/16/24 19:48	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/16/24 19:48	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/16/24 19:48	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/16/24 19:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/16/24 19:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/16/24 19:48	1
Styrene	<1.00		1.00	0.370	ug/L			11/16/24 19:48	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/16/24 19:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/16/24 19:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/16/24 19:48	1
Toluene	<1.00		1.00	0.430	ug/L			11/16/24 19:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/16/24 19:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/16/24 19:48	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/16/24 19:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/16/24 19:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/16/24 19:48	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/16/24 19:48	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/16/24 19:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/16/24 19:48	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/16/24 19:48	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/16/24 19:48	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/16/24 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		11/16/24 19:48	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-8A

Lab Sample ID: 310-295278-3

Date Collected: 11/13/24 12:14

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		73 - 130		11/16/24 19:48	1
Toluene-d8 (Surr)	91		80 - 120		11/16/24 19:48	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00203		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:13	1
Arsenic	0.0408		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:13	1
Barium	0.139		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:13	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:13	1
Cadmium	0.0170		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:13	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:13	1
Cobalt	0.0274		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:13	1
Copper	0.0245		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:13	1
Lead	0.00356		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:13	1
Nickel	0.0569		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:13	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:13	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:13	1
Thallium	0.000724	J	0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:13	1
Vanadium	0.00478	J	0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:13	1
Zinc	0.0577		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	303		15.0	11.1	mg/L			11/15/24 20:01	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-10R

Lab Sample ID: 310-295278-4

Date Collected: 11/12/24 13:42

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 19:38	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 19:38	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 19:38	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 19:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 19:38	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 19:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 19:38	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 19:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 19:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 19:38	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 19:38	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 19:38	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 19:38	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 19:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 19:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 19:38	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 19:38	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 19:38	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 19:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 19:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 19:38	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 19:38	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 19:38	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 19:38	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 19:38	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 19:38	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 19:38	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 19:38	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 19:38	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 19:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 19:38	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 19:38	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 19:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 19:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 19:38	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 19:38	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 19:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 19:38	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 19:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 19:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 19:38	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 19:38	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 19:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 19:38	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 19:38	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 19:38	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/18/24 19:38	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-10R

Lab Sample ID: 310-295278-4

Date Collected: 11/12/24 13:42

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		73 - 130		11/18/24 19:38	1
Toluene-d8 (Surr)	94		80 - 120		11/18/24 19:38	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:31	1
Arsenic	0.000674	J	0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:31	1
Barium	0.0644		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:31	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:31	1
Cobalt	0.000190	J	0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:31	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:31	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:31	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:31	1
Selenium	0.00636		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:31	1
Vanadium	0.00204	J	0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:31	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			11/15/24 17:27	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-11A

Lab Sample ID: 310-295278-5

Date Collected: 11/13/24 11:28

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 20:00	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 20:00	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 20:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 20:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 20:00	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 20:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 20:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 20:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 20:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 20:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 20:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 20:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 20:00	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 20:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 20:00	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 20:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 20:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 20:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 20:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 20:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 20:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 20:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 20:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 20:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 20:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 20:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 20:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 20:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 20:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 20:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 20:00	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 20:00	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 20:00	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 20:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 20:00	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 20:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 20:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 20:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 20:00	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 20:00	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 20:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 20:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 20:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 20:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 20:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 20:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/18/24 20:00	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-11A

Lab Sample ID: 310-295278-5

Date Collected: 11/13/24 11:28

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		11/18/24 20:00	1
Toluene-d8 (Surr)	95		80 - 120		11/18/24 20:00	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:42	1
Arsenic	0.00611		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:42	1
Barium	0.0182		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:42	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:42	1
Cadmium	0.000415		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:42	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:42	1
Cobalt	0.00201		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:42	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:42	1
Lead	0.000320	J	0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:42	1
Nickel	0.0103		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:42	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:42	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:42	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:42	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:42	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	73.3		3.75	2.78	mg/L			11/18/24 19:46	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-13R

Lab Sample ID: 310-295278-6

Date Collected: 11/12/24 11:53

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 20:23	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 20:23	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 20:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 20:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 20:23	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 20:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 20:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 20:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 20:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 20:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 20:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 20:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 20:23	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 20:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 20:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 20:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 20:23	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 20:23	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 20:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 20:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 20:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 20:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 20:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 20:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 20:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 20:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 20:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 20:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 20:23	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 20:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 20:23	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 20:23	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 20:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 20:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 20:23	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 20:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 20:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 20:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 20:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 20:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 20:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 20:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 20:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 20:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 20:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 20:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		11/18/24 20:23	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-13R

Lab Sample ID: 310-295278-6

Date Collected: 11/12/24 11:53

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		73 - 130		11/18/24 20:23	1
Toluene-d8 (Surr)	94		80 - 120		11/18/24 20:23	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:56	1
Arsenic	0.00140	J	0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:56	1
Barium	0.0969		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:56	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:56	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:56	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:56	1
Cobalt	0.000352	J	0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:56	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:56	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:56	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:56	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:56	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:56	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:56	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:56	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	50.7		1.88	1.39	mg/L			11/15/24 13:46	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-14

Lab Sample ID: 310-295278-7

Date Collected: 11/12/24 12:59

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21.5		10.0	3.10	ug/L			11/18/24 20:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 20:45	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 20:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 20:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 20:45	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 20:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 20:45	1
2-Butanone (MEK)	3.96 J		10.0	2.10	ug/L			11/18/24 20:45	1
Carbon disulfide	1.19		1.00	0.450	ug/L			11/18/24 20:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 20:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 20:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 20:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 20:45	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 20:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 20:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 20:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 20:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 20:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 20:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 20:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 20:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 20:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 20:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 20:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 20:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 20:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 20:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 20:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 20:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 20:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 20:45	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 20:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 20:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 20:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 20:45	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 20:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 20:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 20:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 20:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 20:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 20:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 20:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 20:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 20:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 20:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 20:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/18/24 20:45	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-14

Lab Sample ID: 310-295278-7

Date Collected: 11/12/24 12:59

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		73 - 130		11/18/24 20:45	1
Toluene-d8 (Surr)	94		80 - 120		11/18/24 20:45	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 20:11	1
Arsenic	0.00198	J	0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 20:11	1
Barium	0.199		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 20:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 20:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 20:11	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 20:11	1
Cobalt	0.000221	J	0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 20:11	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 20:11	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 20:11	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 20:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 20:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 20:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 20:11	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 20:11	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	9.00		1.88	1.39	mg/L			11/15/24 17:27	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-295278-8

Date Collected: 11/13/24 11:28

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 21:08	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 21:08	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 21:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 21:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 21:08	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 21:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 21:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 21:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 21:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 21:08	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 21:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 21:08	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 21:08	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 21:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 21:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 21:08	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 21:08	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 21:08	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 21:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 21:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 21:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 21:08	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 21:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 21:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 21:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 21:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 21:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 21:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 21:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 21:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 21:08	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 21:08	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 21:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 21:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 21:08	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 21:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 21:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 21:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 21:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 21:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 21:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 21:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 21:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 21:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 21:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 21:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 21:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		11/18/24 21:08	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-D

Lab Sample ID: 310-295278-8

Date Collected: 11/13/24 11:28

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		73 - 130		11/18/24 21:08	1
Toluene-d8 (Surr)	93		80 - 120		11/18/24 21:08	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 20:14	1
Arsenic	0.00623		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 20:14	1
Barium	0.0158		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 20:14	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 20:14	1
Cadmium	0.000385		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 20:14	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 20:14	1
Cobalt	0.00205		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 20:14	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 20:14	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 20:14	1
Nickel	0.0105		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 20:14	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 20:14	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 20:14	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 20:14	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 20:14	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 20:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	466		30.0	22.2	mg/L			11/15/24 20:01	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: Trip blank 1

Lab Sample ID: 310-295278-9

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 18:52	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 18:52	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 18:52	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 18:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 18:52	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 18:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 18:52	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 18:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 18:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 18:52	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 18:52	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 18:52	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 18:52	1
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 18:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 18:52	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 18:52	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 18:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 18:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 18:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 18:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 18:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 18:52	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 18:52	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 18:52	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 18:52	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 18:52	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 18:52	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 18:52	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 18:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 18:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 18:52	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 18:52	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 18:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 18:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 18:52	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 18:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 18:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 18:52	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 18:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 18:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 18:52	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 18:52	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 18:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 18:52	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 18:52	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 18:52	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/18/24 18:52	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: Trip blank 1

Lab Sample ID: 310-295278-9

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane (Surr)	105		73 - 130		11/18/24 18:52	1
Toluene-d8 (Surr)	94		80 - 120		11/18/24 18:52	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: Trip blank 2

Lab Sample ID: 310-295278-10

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/17/24 14:28	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/17/24 14:28	1
Benzene	<0.500		0.500	0.220	ug/L			11/17/24 14:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/17/24 14:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/17/24 14:28	1
Bromoform	<5.00		5.00	0.780	ug/L			11/17/24 14:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/17/24 14:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/17/24 14:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/17/24 14:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/17/24 14:28	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/17/24 14:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/17/24 14:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/17/24 14:28	1
Chloroform	<3.00		3.00	1.30	ug/L			11/17/24 14:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/17/24 14:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/17/24 14:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/17/24 14:28	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/17/24 14:28	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/17/24 14:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/17/24 14:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/17/24 14:28	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/17/24 14:28	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/17/24 14:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/17/24 14:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/17/24 14:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/17/24 14:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/17/24 14:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/17/24 14:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/17/24 14:28	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/17/24 14:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/17/24 14:28	1
Styrene	<1.00		1.00	0.370	ug/L			11/17/24 14:28	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/17/24 14:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/17/24 14:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/17/24 14:28	1
Toluene	<1.00		1.00	0.430	ug/L			11/17/24 14:28	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/17/24 14:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/17/24 14:28	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/17/24 14:28	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/17/24 14:28	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/17/24 14:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/17/24 14:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/17/24 14:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/17/24 14:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/17/24 14:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/17/24 14:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/17/24 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		11/17/24 14:28	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: Trip blank 2

Lab Sample ID: 310-295278-10

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane (Surr)	106		73 - 130		11/17/24 14:28	1
Toluene-d8 (Surr)	95		80 - 120		11/17/24 14:28	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: Trip blank 3

Lab Sample ID: 310-295278-11

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			11/17/24 14:51	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/17/24 14:51	1
Benzene	<0.500		0.500	0.220	ug/L			11/17/24 14:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/17/24 14:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/17/24 14:51	1
Bromoform	<5.00		5.00	0.780	ug/L			11/17/24 14:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/17/24 14:51	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/17/24 14:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/17/24 14:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/17/24 14:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/17/24 14:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/17/24 14:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/17/24 14:51	1
Chloroform	<3.00		3.00	1.30	ug/L			11/17/24 14:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/17/24 14:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/17/24 14:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/17/24 14:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/17/24 14:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/17/24 14:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/17/24 14:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/17/24 14:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/17/24 14:51	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/17/24 14:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/17/24 14:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/17/24 14:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/17/24 14:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/17/24 14:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/17/24 14:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/17/24 14:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/17/24 14:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/17/24 14:51	1
Styrene	<1.00		1.00	0.370	ug/L			11/17/24 14:51	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/17/24 14:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/17/24 14:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/17/24 14:51	1
Toluene	<1.00		1.00	0.430	ug/L			11/17/24 14:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/17/24 14:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/17/24 14:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/17/24 14:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/17/24 14:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/17/24 14:51	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/17/24 14:51	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/17/24 14:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/17/24 14:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/17/24 14:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/17/24 14:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/17/24 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		11/17/24 14:51	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Client Sample ID: Trip blank 3

Lab Sample ID: 310-295278-11

Date Collected: 11/13/24 00:00

Matrix: Water

Date Received: 11/14/24 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane (Surr)	104		73 - 130		11/17/24 14:51	1
Toluene-d8 (Surr)	94		80 - 120		11/17/24 14:51	1

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Definitions/Glossary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (73-130)	TOL (80-120)
310-295278-1	MW-4A	97	107	91
310-295278-2	MW-5A	93	115	91
310-295278-3	MW-8A	100	117	91
310-295278-4	MW-10R	101	104	94
310-295278-4 MS	MW-10R	99	97	99
310-295278-4 MSD	MW-10R	102	100	99
310-295278-5	MW-11A	101	101	95
310-295278-6	MW-13R	102	107	94
310-295278-7	MW-14	101	107	94
310-295278-8	MW-D	99	107	93
310-295278-9	Trip blank 1	101	105	94
310-295278-10	Trip blank 2	102	106	95
310-295278-11	Trip blank 3	103	104	94
LCS 310-439876/6	Lab Control Sample	99	99	99
LCS 310-439876/7	Lab Control Sample	99	102	96
LCS 310-439887/6	Lab Control Sample	100	102	93
LCS 310-439887/7	Lab Control Sample	101	104	92
LCS 310-440036/6	Lab Control Sample	97	96	101
LCS 310-440036/7	Lab Control Sample	102	103	93
MB 310-439876/5	Method Blank	101	106	95
MB 310-439887/5	Method Blank	101	104	92
MB 310-440036/5	Method Blank	101	102	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (25-110)	PHL (21-110)	NBZ (45-129)	FBP (39-118)	TBP (27-136)	TPHL (12-144)
310-295278-1	MW-4A	65	58	91	86	65	63
310-295278-2	MW-5A	59	49	77	74	65	45
LCS 310-439992/2-A	Lab Control Sample	62	54	73	73	90	61
LCSD 310-439992/3-A	Lab Control Sample Dup	67	60	73	68	94	61
MB 310-439992/1-A	Method Blank	55	46	71	70	63	52

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
 PHL = Phenol-d5 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)
 TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (10-130)
310-295278-1	MW-4A	62	141 S1+
310-295278-2	MW-5A	87	128
LB 310-439741/1-E	Method Blank	77	120
LCS 310-439905/9-A	Lab Control Sample	115	118
MB 310-439905/1-A	Method Blank	19	112

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (10-130)
310-295278-1	MW-4A	62	141 S1+
310-295278-2	MW-5A	87	128
LB 310-439741/1-E	Method Blank	77	120
LCS 310-439905/8-A	Lab Control Sample	113	124
MB 310-439905/1-A	Method Blank	19	112

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (25-130)
310-295278-1	MW-4A	62
310-295278-2	MW-5A	773 S1+
LCS 500-796067/2-A	Lab Control Sample	79
MB 500-796067/1-A	Method Blank	61

Surrogate Legend

DCPAA = DCAA

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-439876/5
Matrix: Water
Analysis Batch: 439876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0	3.10	ug/L			11/17/24 12:12	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/17/24 12:12	1
Benzene	<0.500		0.500	0.220	ug/L			11/17/24 12:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/17/24 12:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/17/24 12:12	1
Bromoform	<5.00		5.00	0.780	ug/L			11/17/24 12:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/17/24 12:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/17/24 12:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/17/24 12:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/17/24 12:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/17/24 12:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/17/24 12:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/17/24 12:12	1
Chloroform	<3.00		3.00	1.30	ug/L			11/17/24 12:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/17/24 12:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/17/24 12:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/17/24 12:12	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/17/24 12:12	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/17/24 12:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/17/24 12:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/17/24 12:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/17/24 12:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/17/24 12:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/17/24 12:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/17/24 12:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/17/24 12:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/17/24 12:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/17/24 12:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/17/24 12:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/17/24 12:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/17/24 12:12	1
Styrene	<1.00		1.00	0.370	ug/L			11/17/24 12:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/17/24 12:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/17/24 12:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/17/24 12:12	1
Toluene	<1.00		1.00	0.430	ug/L			11/17/24 12:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/17/24 12:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/17/24 12:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/17/24 12:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/17/24 12:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/17/24 12:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/17/24 12:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/17/24 12:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/17/24 12:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/17/24 12:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/17/24 12:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/17/24 12:12	1

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-439876/5
Matrix: Water
Analysis Batch: 439876

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		80 - 120		11/17/24 12:12	1
Dibromofluoromethane (Surr)	106		73 - 130		11/17/24 12:12	1
Toluene-d8 (Surr)	95		80 - 120		11/17/24 12:12	1

Lab Sample ID: LCS 310-439876/6
Matrix: Water
Analysis Batch: 439876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.22		ug/L		96	50 - 150
Acrylonitrile	200	182.2		ug/L		91	50 - 150
Benzene	20.0	18.80		ug/L		94	72 - 124
Bromochloromethane	20.0	18.56		ug/L		93	73 - 130
Bromodichloromethane	20.0	19.14		ug/L		96	74 - 122
Bromoform	20.0	17.18		ug/L		86	61 - 122
2-Butanone (MEK)	40.0	36.71		ug/L		92	50 - 150
Carbon disulfide	20.0	17.65		ug/L		88	59 - 135
Carbon tetrachloride	20.0	19.85		ug/L		99	67 - 132
Chlorobenzene	20.0	18.34		ug/L		92	76 - 120
Chlorodibromomethane	20.0	18.81		ug/L		94	71 - 121
Chloroform	20.0	19.22		ug/L		96	72 - 125
cis-1,2-Dichloroethene	20.0	18.92		ug/L		95	74 - 123
cis-1,3-Dichloropropene	20.0	18.70		ug/L		94	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	17.14		ug/L		86	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.03		ug/L		95	75 - 125
Dibromomethane	20.0	18.46		ug/L		92	74 - 125
1,2-Dichlorobenzene	20.0	19.07		ug/L		95	74 - 120
1,4-Dichlorobenzene	20.0	18.88		ug/L		94	72 - 120
1,1-Dichloroethane	20.0	18.89		ug/L		94	70 - 127
1,2-Dichloroethane	20.0	18.00		ug/L		90	71 - 125
1,1-Dichloroethene	20.0	19.73		ug/L		99	63 - 132
1,2-Dichloropropane	20.0	19.60		ug/L		98	73 - 124
Ethylbenzene	20.0	18.85		ug/L		94	74 - 122
2-Hexanone	40.0	37.95		ug/L		95	60 - 140
Iodomethane	20.0	19.18		ug/L		96	10 - 150
Methylene Chloride	20.0	18.82		ug/L		94	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	38.25		ug/L		96	60 - 139
Styrene	20.0	19.66		ug/L		98	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.28		ug/L		96	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.23		ug/L		91	68 - 124
Tetrachloroethene	20.0	20.49		ug/L		102	71 - 130
Toluene	20.0	18.75		ug/L		94	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.43		ug/L		82	50 - 150
trans-1,2-Dichloroethene	20.0	18.86		ug/L		94	70 - 126
trans-1,3-Dichloropropene	20.0	16.57		ug/L		83	69 - 123
1,1,1-Trichloroethane	20.0	19.74		ug/L		99	73 - 129
1,1,2-Trichloroethane	20.0	19.02		ug/L		95	73 - 123
Trichloroethene	20.0	19.49		ug/L		97	72 - 126

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-439876/6
Matrix: Water
Analysis Batch: 439876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,2,3-Trichloropropane	20.0	18.26		ug/L		91	65 - 127
Vinyl acetate	40.0	34.11		ug/L		85	50 - 150
Xylenes, Total	40.0	38.61		ug/L		97	73 - 123

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	99		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCS 310-439876/7
Matrix: Water
Analysis Batch: 439876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Bromomethane	20.0	17.68		ug/L		88	23 - 150
Chloroethane	20.0	18.23		ug/L		91	54 - 136
Chloromethane	20.0	18.37		ug/L		92	38 - 150
Trichlorofluoromethane	20.0	18.66		ug/L		93	54 - 149
Vinyl chloride	20.0	19.03		ug/L		95	56 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: MB 310-439887/5
Matrix: Water
Analysis Batch: 439887

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0	3.10	ug/L			11/16/24 12:11	1
Acrolein	<10.0		10.0	3.60	ug/L			11/16/24 12:11	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/16/24 12:11	1
Allyl chloride	<2.00		2.00	0.700	ug/L			11/16/24 12:11	1
Benzene	<0.500		0.500	0.220	ug/L			11/16/24 12:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/16/24 12:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/16/24 12:11	1
Bromoform	<5.00		5.00	0.780	ug/L			11/16/24 12:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/16/24 12:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/16/24 12:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/16/24 12:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/16/24 12:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/16/24 12:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/16/24 12:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/16/24 12:11	1
Chloroform	<3.00		3.00	1.30	ug/L			11/16/24 12:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/16/24 12:11	1
Chloroprene	<1.00		1.00	0.230	ug/L			11/16/24 12:11	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-439887/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 439887

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/16/24 12:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/16/24 12:11	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/16/24 12:11	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/16/24 12:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/16/24 12:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/16/24 12:11	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			11/16/24 12:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/16/24 12:11	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			11/16/24 12:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/16/24 12:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/16/24 12:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/16/24 12:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/16/24 12:11	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			11/16/24 12:11	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			11/16/24 12:11	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			11/16/24 12:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/16/24 12:11	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			11/16/24 12:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/16/24 12:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/16/24 12:11	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			11/16/24 12:11	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/16/24 12:11	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			11/16/24 12:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/16/24 12:11	1
Naphthalene	<5.00		5.00	3.00	ug/L			11/16/24 12:11	1
Propionitrile	<10.0		10.0	3.40	ug/L			11/16/24 12:11	1
Styrene	<1.00		1.00	0.370	ug/L			11/16/24 12:11	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/16/24 12:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/16/24 12:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/16/24 12:11	1
Toluene	<1.00		1.00	0.430	ug/L			11/16/24 12:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/16/24 12:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/16/24 12:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/16/24 12:11	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			11/16/24 12:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/16/24 12:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/16/24 12:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/16/24 12:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/16/24 12:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/16/24 12:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/16/24 12:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/16/24 12:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/16/24 12:11	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		80 - 120		11/16/24 12:11	1
Dibromofluoromethane (Surr)	104		73 - 130		11/16/24 12:11	1
Toluene-d8 (Surr)	92		80 - 120		11/16/24 12:11	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-439887/6

Matrix: Water

Analysis Batch: 439887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	32.86		ug/L		82	50 - 150
Acrolein	95.5	78.67		ug/L		82	49 - 150
Acrylonitrile	200	194.1		ug/L		97	50 - 150
Allyl chloride	20.0	20.82		ug/L		104	49 - 150
Benzene	20.0	21.72		ug/L		109	72 - 124
Bromochloromethane	20.0	21.95		ug/L		110	73 - 130
Bromodichloromethane	20.0	20.50		ug/L		103	74 - 122
Bromoform	20.0	18.63		ug/L		93	61 - 122
2-Butanone (MEK)	40.0	34.15		ug/L		85	50 - 150
Carbon disulfide	20.0	20.42		ug/L		102	59 - 135
Carbon tetrachloride	20.0	22.02		ug/L		110	67 - 132
Chlorobenzene	20.0	19.46		ug/L		97	76 - 120
Chlorodibromomethane	20.0	18.47		ug/L		92	71 - 121
Chloroform	20.0	20.11		ug/L		101	72 - 125
Chloroprene	20.0	20.19		ug/L		101	69 - 133
cis-1,2-Dichloroethene	20.0	21.48		ug/L		107	74 - 123
cis-1,3-Dichloropropene	20.0	17.90		ug/L		90	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	16.47		ug/L		82	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.88		ug/L		94	75 - 125
Dibromomethane	20.0	20.74		ug/L		104	74 - 125
1,2-Dichlorobenzene	20.0	18.61		ug/L		93	74 - 120
1,3-Dichlorobenzene	20.0	18.73		ug/L		94	72 - 120
1,4-Dichlorobenzene	20.0	18.43		ug/L		92	72 - 120
1,1-Dichloroethane	20.0	21.11		ug/L		106	70 - 127
1,2-Dichloroethane	20.0	19.04		ug/L		95	71 - 125
1,1-Dichloroethene	20.0	21.50		ug/L		107	63 - 132
1,2-Dichloropropane	20.0	21.40		ug/L		107	73 - 124
1,3-Dichloropropane	20.0	21.10		ug/L		105	72 - 125
2,2-Dichloropropane	20.0	16.68		ug/L		83	50 - 150
1,1-Dichloropropene	20.0	22.02		ug/L		110	69 - 132
Ethylbenzene	20.0	19.66		ug/L		98	74 - 122
Ethyl methacrylate	20.0	18.48		ug/L		92	70 - 129
2-Hexanone	40.0	31.72		ug/L		79	60 - 140
Iodomethane	20.0	11.10		ug/L		56	10 - 150
Methacrylonitrile	200	198.9		ug/L		99	69 - 129
Methylene Chloride	20.0	20.61		ug/L		103	50 - 150
Methyl methacrylate	40.0	41.53		ug/L		104	68 - 131
4-Methyl-2-pentanone (MIBK)	40.0	32.77		ug/L		82	60 - 139
Naphthalene	20.0	17.65		ug/L		88	50 - 150
Propionitrile	200	199.0		ug/L		99	63 - 135
Styrene	20.0	20.11		ug/L		101	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.29		ug/L		96	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.09		ug/L		90	68 - 124
Tetrachloroethene	20.0	20.46		ug/L		102	71 - 130
Toluene	20.0	18.99		ug/L		95	74 - 123
trans-1,4-Dichloro-2-butene	20.0	14.29		ug/L		71	50 - 150
trans-1,2-Dichloroethene	20.0	21.47		ug/L		107	70 - 126
trans-1,3-Dichloropropene	20.0	19.73		ug/L		99	69 - 123

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-439887/6
Matrix: Water
Analysis Batch: 439887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,2,4-Trichlorobenzene	20.0	19.18		ug/L		96	68 - 124
1,1,1-Trichloroethane	20.0	21.20		ug/L		106	73 - 129
1,1,2-Trichloroethane	20.0	18.28		ug/L		91	73 - 123
Trichloroethene	20.0	22.47		ug/L		112	72 - 126
1,2,3-Trichloropropane	20.0	17.81		ug/L		89	65 - 127
Vinyl acetate	40.0	37.95		ug/L		95	50 - 150
Xylenes, Total	40.0	39.60		ug/L		99	73 - 123

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: LCS 310-439887/7
Matrix: Water
Analysis Batch: 439887

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Bromomethane	20.0	18.69		ug/L		93	23 - 150
Chloroethane	20.0	17.89		ug/L		89	54 - 136
Chloromethane	20.0	20.48		ug/L		102	38 - 150
Dichlorodifluoromethane	20.0	21.23		ug/L		106	39 - 150
Trichlorofluoromethane	20.0	21.13		ug/L		106	54 - 149
Vinyl chloride	20.0	19.56		ug/L		98	56 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	104		73 - 130
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: MB 310-440036/5
Matrix: Water
Analysis Batch: 440036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0	3.10	ug/L			11/18/24 17:44	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/18/24 17:44	1
Benzene	<0.500		0.500	0.220	ug/L			11/18/24 17:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			11/18/24 17:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/18/24 17:44	1
Bromoform	<5.00		5.00	0.780	ug/L			11/18/24 17:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/18/24 17:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			11/18/24 17:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/18/24 17:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/18/24 17:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			11/18/24 17:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			11/18/24 17:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			11/18/24 17:44	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-440036/5

Matrix: Water

Analysis Batch: 440036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<3.00		3.00	1.30	ug/L			11/18/24 17:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/18/24 17:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			11/18/24 17:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			11/18/24 17:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/18/24 17:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/18/24 17:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/18/24 17:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/18/24 17:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			11/18/24 17:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			11/18/24 17:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			11/18/24 17:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			11/18/24 17:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			11/18/24 17:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			11/18/24 17:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			11/18/24 17:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			11/18/24 17:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/18/24 17:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			11/18/24 17:44	1
Styrene	<1.00		1.00	0.370	ug/L			11/18/24 17:44	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/18/24 17:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			11/18/24 17:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/18/24 17:44	1
Toluene	<1.00		1.00	0.430	ug/L			11/18/24 17:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			11/18/24 17:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			11/18/24 17:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			11/18/24 17:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			11/18/24 17:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			11/18/24 17:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			11/18/24 17:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			11/18/24 17:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			11/18/24 17:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			11/18/24 17:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			11/18/24 17:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			11/18/24 17:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/18/24 17:44	1
Dibromofluoromethane (Surr)	102		73 - 130		11/18/24 17:44	1
Toluene-d8 (Surr)	94		80 - 120		11/18/24 17:44	1

Lab Sample ID: LCS 310-440036/6

Matrix: Water

Analysis Batch: 440036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	36.67		ug/L		92	50 - 150
Acrylonitrile	200	193.2		ug/L		97	50 - 150
Benzene	20.0	19.52		ug/L		98	72 - 124

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-440036/6

Matrix: Water

Analysis Batch: 440036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.71		ug/L		99	73 - 130
Bromodichloromethane	20.0	19.90		ug/L		100	74 - 122
Bromoform	20.0	17.96		ug/L		90	61 - 122
2-Butanone (MEK)	40.0	40.30		ug/L		101	50 - 150
Carbon disulfide	20.0	18.29		ug/L		91	59 - 135
Carbon tetrachloride	20.0	19.33		ug/L		97	67 - 132
Chlorobenzene	20.0	19.21		ug/L		96	76 - 120
Chlorodibromomethane	20.0	20.51		ug/L		103	71 - 121
Chloroform	20.0	20.05		ug/L		100	72 - 125
cis-1,2-Dichloroethene	20.0	19.63		ug/L		98	74 - 123
cis-1,3-Dichloropropene	20.0	20.74		ug/L		104	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.51		ug/L		93	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.38		ug/L		102	75 - 125
Dibromomethane	20.0	18.93		ug/L		95	74 - 125
1,2-Dichlorobenzene	20.0	19.81		ug/L		99	74 - 120
1,4-Dichlorobenzene	20.0	19.02		ug/L		95	72 - 120
1,1-Dichloroethane	20.0	19.53		ug/L		98	70 - 127
1,2-Dichloroethane	20.0	19.42		ug/L		97	71 - 125
1,1-Dichloroethene	20.0	20.35		ug/L		102	63 - 132
1,2-Dichloropropane	20.0	20.75		ug/L		104	73 - 124
Ethylbenzene	20.0	19.55		ug/L		98	74 - 122
2-Hexanone	40.0	40.38		ug/L		101	60 - 140
Iodomethane	20.0	19.45		ug/L		97	10 - 150
Methylene Chloride	20.0	20.11		ug/L		101	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	40.20		ug/L		101	60 - 139
Styrene	20.0	20.79		ug/L		104	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.12		ug/L		101	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.86		ug/L		94	68 - 124
Tetrachloroethene	20.0	20.72		ug/L		104	71 - 130
Toluene	20.0	19.12		ug/L		96	74 - 123
trans-1,4-Dichloro-2-butene	20.0	18.76		ug/L		94	50 - 150
trans-1,2-Dichloroethene	20.0	19.50		ug/L		98	70 - 126
trans-1,3-Dichloropropene	20.0	18.30		ug/L		92	69 - 123
1,1,1-Trichloroethane	20.0	20.16		ug/L		101	73 - 129
1,1,2-Trichloroethane	20.0	20.61		ug/L		103	73 - 123
Trichloroethene	20.0	20.06		ug/L		100	72 - 126
1,2,3-Trichloropropane	20.0	19.41		ug/L		97	65 - 127
Vinyl acetate	40.0	36.62		ug/L		92	50 - 150
Xylenes, Total	40.0	39.76		ug/L		99	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		73 - 130
Toluene-d8 (Surr)	101		80 - 120

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-440036/7

Matrix: Water

Analysis Batch: 440036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	19.33		ug/L		97	23 - 150
Chloroethane	20.0	20.92		ug/L		105	54 - 136
Chloromethane	20.0	20.08		ug/L		100	38 - 150
Trichlorofluoromethane	20.0	19.22		ug/L		96	54 - 149
Vinyl chloride	20.0	20.74		ug/L		104	56 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	103		73 - 130
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: 310-295278-4 MS

Matrix: Water

Analysis Batch: 440036

Client Sample ID: MW-10R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<10.0		50.0	45.81		ug/L		92	31 - 150
Acrylonitrile	<10.0		250	223.1		ug/L		89	40 - 150
Benzene	<0.500		25.0	20.96		ug/L		84	46 - 130
Bromochloromethane	<5.00		25.0	22.38		ug/L		90	57 - 130
Bromodichloromethane	<1.00		25.0	22.38		ug/L		90	57 - 130
Bromoform	<5.00		25.0	22.37		ug/L		89	44 - 130
2-Butanone (MEK)	<10.0		50.0	44.71		ug/L		89	38 - 150
Carbon disulfide	<1.00		25.0	22.14		ug/L		89	38 - 135
Carbon tetrachloride	<2.00		25.0	20.63		ug/L		83	45 - 132
Chlorobenzene	<1.00		25.0	22.11		ug/L		88	59 - 130
Chlorodibromomethane	<5.00		25.0	24.47		ug/L		98	54 - 130
Chloroform	<3.00		25.0	21.53		ug/L		86	51 - 130
cis-1,2-Dichloroethene	<1.00		25.0	22.69		ug/L		91	45 - 130
cis-1,3-Dichloropropene	<5.00		25.0	22.70		ug/L		91	53 - 130
1,2-Dibromo-3-Chloropropane	<1.20		25.0	22.79		ug/L		91	38 - 150
1,2-Dibromoethane (EDB)	<0.340		25.0	22.94		ug/L		92	60 - 130
Dibromomethane	<1.00		25.0	21.57		ug/L		86	59 - 130
1,2-Dichlorobenzene	<1.00		25.0	23.80		ug/L		95	59 - 130
1,4-Dichlorobenzene	<1.00		25.0	23.23		ug/L		93	57 - 130
1,1-Dichloroethane	<1.00		25.0	20.82		ug/L		83	49 - 130
1,2-Dichloroethane	<1.00		25.0	21.02		ug/L		84	51 - 130
1,1-Dichloroethene	<2.00		25.0	22.44		ug/L		90	37 - 132
1,2-Dichloropropane	<1.00		25.0	23.00		ug/L		92	57 - 130
Ethylbenzene	<1.00		25.0	21.46		ug/L		86	45 - 130
2-Hexanone	<10.0		50.0	49.76		ug/L		100	46 - 140
Iodomethane	<10.0		25.0	22.46		ug/L		90	10 - 150
Methylene Chloride	<5.00		25.0	22.12		ug/L		88	37 - 150
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	47.49		ug/L		95	47 - 139
Styrene	<1.00		25.0	24.19		ug/L		97	47 - 130
1,1,1,2-Tetrachloroethane	<1.00		25.0	24.10		ug/L		96	55 - 130
1,1,2,2-Tetrachloroethane	<1.00		25.0	24.09		ug/L		96	54 - 130
Tetrachloroethene	<1.00		25.0	21.73		ug/L		87	47 - 130

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-295278-4 MS

Matrix: Water

Analysis Batch: 440036

Client Sample ID: MW-10R

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Toluene	<1.00		25.0	20.42		ug/L		82	51 - 130
trans-1,4-Dichloro-2-butene	<10.0		25.0	21.06		ug/L		84	26 - 150
trans-1,2-Dichloroethene	<1.00		25.0	21.41		ug/L		86	48 - 130
trans-1,3-Dichloropropene	<5.00		25.0	20.36		ug/L		81	50 - 130
1,1,1-Trichloroethane	<1.00		25.0	20.67		ug/L		83	52 - 130
1,1,2-Trichloroethane	<1.00		25.0	24.12		ug/L		96	58 - 130
Trichloroethene	<1.00		25.0	21.71		ug/L		87	51 - 130
1,2,3-Trichloropropane	<1.00		25.0	23.82		ug/L		95	49 - 130
Vinyl acetate	<10.0		50.0	38.86		ug/L		78	29 - 150
Xylenes, Total	<3.00		50.0	44.58		ug/L		89	43 - 130
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		80 - 120						
Dibromofluoromethane (Surr)	97		73 - 130						
Toluene-d8 (Surr)	99		80 - 120						

Lab Sample ID: 310-295278-4 MSD

Matrix: Water

Analysis Batch: 440036

Client Sample ID: MW-10R

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	<10.0		50.0	44.08		ug/L		88	31 - 150	4	29
Acrylonitrile	<10.0		25.0	213.3		ug/L		85	40 - 150	5	20
Benzene	<0.500		25.0	19.64		ug/L		79	46 - 130	7	20
Bromochloromethane	<5.00		25.0	20.40		ug/L		82	57 - 130	9	20
Bromodichloromethane	<1.00		25.0	21.00		ug/L		84	57 - 130	6	20
Bromoform	<5.00		25.0	20.89		ug/L		84	44 - 130	7	20
2-Butanone (MEK)	<10.0		50.0	40.21		ug/L		80	38 - 150	11	20
Carbon disulfide	<1.00		25.0	18.76		ug/L		75	38 - 135	17	30
Carbon tetrachloride	<2.00		25.0	19.34		ug/L		77	45 - 132	6	20
Chlorobenzene	<1.00		25.0	20.42		ug/L		82	59 - 130	8	20
Chlorodibromomethane	<5.00		25.0	22.89		ug/L		92	54 - 130	7	20
Chloroform	<3.00		25.0	20.02		ug/L		80	51 - 130	7	20
cis-1,2-Dichloroethene	<1.00		25.0	20.43		ug/L		82	45 - 130	11	20
cis-1,3-Dichloropropene	<5.00		25.0	21.54		ug/L		86	53 - 130	5	20
1,2-Dibromo-3-Chloropropane	<1.20		25.0	23.22		ug/L		93	38 - 150	2	20
1,2-Dibromoethane (EDB)	<0.340		25.0	22.23		ug/L		89	60 - 130	3	20
Dibromomethane	<1.00		25.0	20.26		ug/L		81	59 - 130	6	20
1,2-Dichlorobenzene	<1.00		25.0	22.49		ug/L		90	59 - 130	6	20
1,4-Dichlorobenzene	<1.00		25.0	21.97		ug/L		88	57 - 130	6	20
1,1-Dichloroethane	<1.00		25.0	19.37		ug/L		77	49 - 130	7	20
1,2-Dichloroethane	<1.00		25.0	19.75		ug/L		79	51 - 130	6	20
1,1-Dichloroethene	<2.00		25.0	20.90		ug/L		84	37 - 132	7	26
1,2-Dichloropropane	<1.00		25.0	21.41		ug/L		86	57 - 130	7	20
Ethylbenzene	<1.00		25.0	19.89		ug/L		80	45 - 130	8	20
2-Hexanone	<10.0		50.0	45.96		ug/L		92	46 - 140	8	20
Iodomethane	<10.0		25.0	21.78		ug/L		87	10 - 150	3	35
Methylene Chloride	<5.00		25.0	20.20		ug/L		81	37 - 150	9	24

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-295278-4 MSD
Matrix: Water
Analysis Batch: 440036

Client Sample ID: MW-10R
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	46.08		ug/L		92	47 - 139	3	20
Styrene	<1.00		25.0	22.21		ug/L		89	47 - 130	9	20
1,1,1,2-Tetrachloroethane	<1.00		25.0	22.62		ug/L		90	55 - 130	6	20
1,1,1,2,2-Tetrachloroethane	<1.00		25.0	22.32		ug/L		89	54 - 130	8	20
Tetrachloroethene	<1.00		25.0	20.55		ug/L		82	47 - 130	6	20
Toluene	<1.00		25.0	19.12		ug/L		76	51 - 130	7	20
trans-1,4-Dichloro-2-butene	<10.0		25.0	20.64		ug/L		83	26 - 150	2	23
trans-1,2-Dichloroethene	<1.00		25.0	19.41		ug/L		78	48 - 130	10	22
trans-1,3-Dichloropropene	<5.00		25.0	19.31		ug/L		77	50 - 130	5	20
1,1,1-Trichloroethane	<1.00		25.0	19.30		ug/L		77	52 - 130	7	20
1,1,2-Trichloroethane	<1.00		25.0	22.59		ug/L		90	58 - 130	7	20
Trichloroethene	<1.00		25.0	19.60		ug/L		78	51 - 130	10	20
1,2,3-Trichloropropane	<1.00		25.0	21.97		ug/L		88	49 - 130	8	26
Vinyl acetate	<10.0		50.0	36.74		ug/L		73	29 - 150	6	23
Xylenes, Total	<3.00		50.0	41.62		ug/L		83	43 - 130	7	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	100		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-439992/1-A
Matrix: Water
Analysis Batch: 440064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439992

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 15:58	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 15:58	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		11/18/24 06:40	11/18/24 15:58	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-439992/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 440064

Prep Batch: 439992

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Nitroaniline	<10.0		10.0	5.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		11/18/24 06:40	11/18/24 15:58	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		11/18/24 06:40	11/18/24 15:58	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		11/18/24 06:40	11/18/24 15:58	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
Acenaphthene	<10.0		10.0	0.640	ug/L		11/18/24 06:40	11/18/24 15:58	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 15:58	1
Acetophenone	<10.0		10.0	0.690	ug/L		11/18/24 06:40	11/18/24 15:58	1
Anthracene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 15:58	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		11/18/24 06:40	11/18/24 15:58	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		11/18/24 06:40	11/18/24 15:58	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		11/18/24 06:40	11/18/24 15:58	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		11/18/24 06:40	11/18/24 15:58	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Chrysene	<10.0		10.0	0.870	ug/L		11/18/24 06:40	11/18/24 15:58	1
Diallate	<10.0		10.0	4.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		11/18/24 06:40	11/18/24 15:58	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
Dimethoate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
Diphenylamine	<10.0		10.0	6.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
Disulfoton	<10.0		10.0	2.40	ug/L		11/18/24 06:40	11/18/24 15:58	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
Famphur	<10.0		10.0	3.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
Fluoranthene	<10.0		10.0	1.70	ug/L		11/18/24 06:40	11/18/24 15:58	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-439992/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 440064

Prep Batch: 439992

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluorene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 15:58	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		11/18/24 06:40	11/18/24 15:58	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		11/18/24 06:40	11/18/24 15:58	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		11/18/24 06:40	11/18/24 15:58	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		11/18/24 06:40	11/18/24 15:58	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
Isodrin	<10.0		10.0	4.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
Isophorone	<10.0		10.0	0.930	ug/L		11/18/24 06:40	11/18/24 15:58	1
Isosafrole	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
Kepone	<10.0		10.0	1.00	ug/L		11/18/24 06:40	11/18/24 15:58	1
Methapyrilene	<10.0		10.0	0.760	ug/L		11/18/24 06:40	11/18/24 15:58	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
Methyl parathion	<10.0		10.0	2.30	ug/L		11/18/24 06:40	11/18/24 15:58	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
o,o',o"-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
o-Toluidine	<10.0		10.0	2.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		11/18/24 06:40	11/18/24 15:58	1
Phenacetin	<10.0		10.0	1.90	ug/L		11/18/24 06:40	11/18/24 15:58	1
Phenanthrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 15:58	1
Phenol	<10.0		10.0	1.10	ug/L		11/18/24 06:40	11/18/24 15:58	1
Phorate	<10.0		10.0	3.20	ug/L		11/18/24 06:40	11/18/24 15:58	1
Pronamide	<10.0		10.0	2.70	ug/L		11/18/24 06:40	11/18/24 15:58	1
Pyrene	<10.0		10.0	0.790	ug/L		11/18/24 06:40	11/18/24 15:58	1
Safrole	<10.0		10.0	2.80	ug/L		11/18/24 06:40	11/18/24 15:58	1
Thionazin	<10.0		10.0	3.50	ug/L		11/18/24 06:40	11/18/24 15:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	55		25 - 110	11/18/24 06:40	11/18/24 15:58	1
Phenol-d5 (Surr)	46		21 - 110	11/18/24 06:40	11/18/24 15:58	1
Nitrobenzene-d5 (Surr)	71		45 - 129	11/18/24 06:40	11/18/24 15:58	1
2-Fluorobiphenyl (Surr)	70		39 - 118	11/18/24 06:40	11/18/24 15:58	1
2,4,6-Tribromophenol (Surr)	63		27 - 136	11/18/24 06:40	11/18/24 15:58	1
Terphenyl-d14 (Surr)	52		12 - 144	11/18/24 06:40	11/18/24 15:58	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-439992/2-A

Matrix: Water

Analysis Batch: 440064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	100	54.85		ug/L		55	36 - 110
1,3-Dinitrobenzene	100	79.46		ug/L		79	45 - 138
2,3,4,6-Tetrachlorophenol	100	78.62		ug/L		79	33 - 134
2,4,5-Trichlorophenol	100	74.95		ug/L		75	35 - 133
2,4,6-Trichlorophenol	100	75.65		ug/L		76	28 - 139
2,4-Dichlorophenol	100	78.95		ug/L		79	41 - 124
2,4-Dimethylphenol	100	65.82		ug/L		66	31 - 142
2,4-Dinitrophenol	200	197.2		ug/L		99	10 - 138
2,4-Dinitrotoluene	100	87.32		ug/L		87	47 - 137
2,6-Dichlorophenol	100	78.99		ug/L		79	30 - 130
2,6-Dinitrotoluene	100	80.48		ug/L		80	51 - 130
2-Chloronaphthalene	100	56.12		ug/L		56	37 - 110
2-Chlorophenol	100	69.50		ug/L		69	44 - 117
2-Methylnaphthalene	100	70.65		ug/L		71	33 - 110
2-Methylphenol	100	69.16		ug/L		69	47 - 118
2-Nitroaniline	100	87.55		ug/L		88	50 - 135
2-Nitrophenol	100	86.80		ug/L		87	41 - 129
3-Nitroaniline	100	97.73		ug/L		98	42 - 139
4,6-Dinitro-2-methylphenol	200	218.5		ug/L		109	22 - 143
4-Bromophenyl phenyl ether	100	68.15		ug/L		68	45 - 119
4-Chloro-3-methylphenol	100	81.94		ug/L		82	49 - 130
4-Chloroaniline	100	81.88		ug/L		82	21 - 139
4-Chlorophenyl phenyl ether	100	69.75		ug/L		70	44 - 116
4-Methylphenol (and/or 3-Methylphenol)	100	70.93		ug/L		71	46 - 117
4-Nitroaniline	100	86.56		ug/L		87	31 - 145
4-Nitrophenol	200	114.5		ug/L		57	18 - 110
Acenaphthene	100	70.94		ug/L		71	43 - 110
Acenaphthylene	100	66.29		ug/L		66	40 - 110
Acetophenone	100	66.52		ug/L		67	48 - 119
Anthracene	100	77.50		ug/L		78	51 - 120
Benzo(a)anthracene	100	83.30		ug/L		83	51 - 123
Benzo(a)pyrene	100	79.13		ug/L		79	48 - 125
Benzo(b)fluoranthene	100	79.29		ug/L		79	49 - 129
Benzo(g,h,i)perylene	100	74.47		ug/L		74	43 - 139
Benzo(k)fluoranthene	100	88.62		ug/L		89	47 - 130
Benzyl alcohol	100	74.73		ug/L		75	39 - 128
Bis(2-chloroethoxy)methane	100	70.67		ug/L		71	48 - 121
Bis(2-chloroethyl)ether	100	67.48		ug/L		67	43 - 123
bis(2-chloroisopropyl) ether	100	65.46		ug/L		65	34 - 123
Bis(2-ethylhexyl) phthalate	100	87.15		ug/L		87	43 - 143
Butyl benzyl phthalate	100	82.46		ug/L		82	46 - 135
Chrysene	100	85.04		ug/L		85	51 - 125
Dibenz(a,h)anthracene	100	74.75		ug/L		75	38 - 149
Dibenzofuran	100	68.29		ug/L		68	45 - 112
Diethyl phthalate	100	86.14		ug/L		86	43 - 135
Dimethyl phthalate	100	78.13		ug/L		78	43 - 129
Di-n-butyl phthalate	100	95.68		ug/L		96	50 - 133
Di-n-octyl phthalate	100	97.27		ug/L		97	34 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-439992/2-A
Matrix: Water
Analysis Batch: 440064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Diphenylamine	85.0	66.01		ug/L		78	48 - 122	
Fluoranthene	100	94.62		ug/L		95	47 - 128	
Fluorene	100	76.92		ug/L		77	45 - 119	
Hexachlorobenzene	100	70.45		ug/L		70	48 - 119	
Hexachlorobutadiene	100	56.17		ug/L		56	32 - 110	
Hexachlorocyclopentadiene	100	39.21		ug/L		39	10 - 110	
Hexachloroethane	100	47.27		ug/L		47	31 - 110	
Indeno(1,2,3-cd)pyrene	100	87.27		ug/L		87	37 - 150	
Isophorone	100	75.03		ug/L		75	50 - 125	
Nitrobenzene	100	70.99		ug/L		71	47 - 116	
N-Nitrosodimethylamine	100	56.07		ug/L		56	37 - 110	
N-Nitrosodi-n-propylamine	100	71.26		ug/L		71	45 - 130	
N-Nitrosodiphenylamine	100	77.15		ug/L		77	49 - 121	
Pentachlorophenol	200	144.7		ug/L		72	26 - 133	
Phenanthrene	100	76.67		ug/L		77	51 - 117	
Phenol	100	48.74		ug/L		49	29 - 110	
Pyrene	100	78.74		ug/L		79	48 - 127	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	62		25 - 110
Phenol-d5 (Surr)	54		21 - 110
Nitrobenzene-d5 (Surr)	73		45 - 129
2-Fluorobiphenyl (Surr)	73		39 - 118
2,4,6-Tribromophenol (Surr)	90		27 - 136
Terphenyl-d14 (Surr)	61		12 - 144

Lab Sample ID: LCSD 310-439992/3-A
Matrix: Water
Analysis Batch: 440064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 439992

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1,2,4,5-Tetrachlorobenzene	100	63.68		ug/L		64	36 - 110	15	35	
1,3-Dinitrobenzene	100	85.02		ug/L		85	45 - 138	7	35	
2,3,4,6-Tetrachlorophenol	100	85.48		ug/L		85	33 - 134	8	35	
2,4,5-Trichlorophenol	100	89.37		ug/L		89	35 - 133	18	35	
2,4,6-Trichlorophenol	100	87.96		ug/L		88	28 - 139	15	35	
2,4-Dichlorophenol	100	86.58		ug/L		87	41 - 124	9	35	
2,4-Dimethylphenol	100	71.90		ug/L		72	31 - 142	9	35	
2,4-Dinitrophenol	200	208.1		ug/L		104	10 - 138	5	35	
2,4-Dinitrotoluene	100	88.30		ug/L		88	47 - 137	1	35	
2,6-Dichlorophenol	100	83.99		ug/L		84	30 - 130	6	35	
2,6-Dinitrotoluene	100	90.14		ug/L		90	51 - 130	11	35	
2-Chloronaphthalene	100	63.00		ug/L		63	37 - 110	12	35	
2-Chlorophenol	100	75.71		ug/L		76	44 - 117	9	35	
2-Methylnaphthalene	100	72.05		ug/L		72	33 - 110	2	35	
2-Methylphenol	100	75.95		ug/L		76	47 - 118	9	35	
2-Nitroaniline	100	93.63		ug/L		94	50 - 135	7	35	
2-Nitrophenol	100	98.58		ug/L		99	41 - 129	13	35	

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QC Sample Results

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-439992/3-A

Matrix: Water

Analysis Batch: 440064

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439992

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
3-Nitroaniline	100	99.75		ug/L		100	42 - 139	2	35	
4,6-Dinitro-2-methylphenol	200	212.7		ug/L		106	22 - 143	3	35	
4-Bromophenyl phenyl ether	100	76.65		ug/L		77	45 - 119	12	35	
4-Chloro-3-methylphenol	100	85.55		ug/L		86	49 - 130	4	35	
4-Chloroaniline	100	82.70		ug/L		83	21 - 139	1	35	
4-Chlorophenyl phenyl ether	100	71.28		ug/L		71	44 - 116	2	35	
4-Methylphenol (and/or 3-Methylphenol)	100	78.28		ug/L		78	46 - 117	10	35	
4-Nitroaniline	100	81.64		ug/L		82	31 - 145	6	35	
4-Nitrophenol	200	127.5		ug/L		64	18 - 110	11	35	
Acenaphthene	100	77.30		ug/L		77	43 - 110	9	35	
Acenaphthylene	100	72.66		ug/L		73	40 - 110	9	35	
Acetophenone	100	70.67		ug/L		71	48 - 119	6	35	
Anthracene	100	81.43		ug/L		81	51 - 120	5	35	
Benzo(a)anthracene	100	85.89		ug/L		86	51 - 123	3	35	
Benzo(a)pyrene	100	79.65		ug/L		80	48 - 125	1	35	
Benzo(b)fluoranthene	100	82.94		ug/L		83	49 - 129	5	35	
Benzo(g,h,i)perylene	100	73.91		ug/L		74	43 - 139	1	35	
Benzo(k)fluoranthene	100	87.99		ug/L		88	47 - 130	1	35	
Benzyl alcohol	100	81.29		ug/L		81	39 - 128	8	35	
Bis(2-chloroethoxy)methane	100	74.59		ug/L		75	48 - 121	5	35	
Bis(2-chloroethyl)ether	100	69.62		ug/L		70	43 - 123	3	35	
bis(2-chloroisopropyl) ether	100	68.72		ug/L		69	34 - 123	5	35	
Bis(2-ethylhexyl) phthalate	100	93.19		ug/L		93	43 - 143	7	35	
Butyl benzyl phthalate	100	88.75		ug/L		89	46 - 135	7	35	
Chrysene	100	86.84		ug/L		87	51 - 125	2	35	
Dibenz(a,h)anthracene	100	70.75		ug/L		71	38 - 149	5	35	
Dibenzofuran	100	72.37		ug/L		72	45 - 112	6	35	
Diethyl phthalate	100	80.68		ug/L		81	43 - 135	7	35	
Dimethyl phthalate	100	82.61		ug/L		83	43 - 129	6	35	
Di-n-butyl phthalate	100	94.07		ug/L		94	50 - 133	2	35	
Di-n-octyl phthalate	100	101.7		ug/L		102	34 - 150	4	35	
Diphenylamine	85.0	66.60		ug/L		78	48 - 122	1	35	
Fluoranthene	100	88.68		ug/L		89	47 - 128	6	35	
Fluorene	100	78.00		ug/L		78	45 - 119	1	35	
Hexachlorobenzene	100	78.48		ug/L		78	48 - 119	11	35	
Hexachlorobutadiene	100	61.04		ug/L		61	32 - 110	8	35	
Hexachlorocyclopentadiene	100	47.94		ug/L		48	10 - 110	20	35	
Hexachloroethane	100	50.04		ug/L		50	31 - 110	6	35	
Indeno(1,2,3-cd)pyrene	100	82.69		ug/L		83	37 - 150	5	35	
Isophorone	100	79.82		ug/L		80	50 - 125	6	35	
Nitrobenzene	100	76.13		ug/L		76	47 - 116	7	35	
N-Nitrosodimethylamine	100	65.42		ug/L		65	37 - 110	15	35	
N-Nitrosodi-n-propylamine	100	74.64		ug/L		75	45 - 130	5	35	
N-Nitrosodiphenylamine	100	78.02		ug/L		78	49 - 121	1	35	
Pentachlorophenol	200	158.1		ug/L		79	26 - 133	9	35	
Phenanthrene	100	79.29		ug/L		79	51 - 117	3	35	
Phenol	100	58.00		ug/L		58	29 - 110	17	35	
Pyrene	100	87.48		ug/L		87	48 - 127	11	35	

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	67		25 - 110
Phenol-d5 (Surr)	60		21 - 110
Nitrobenzene-d5 (Surr)	73		45 - 129
2-Fluorobiphenyl (Surr)	68		39 - 118
2,4,6-Tribromophenol (Surr)	94		27 - 136
Terphenyl-d14 (Surr)	61		12 - 144

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 310-440006/4
 Matrix: Water
 Analysis Batch: 440006

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetonitrile	<10.0		10.0	2.60	mg/L			11/18/24 09:52	1
Isobutanol	<10.0		10.0	2.40	mg/L			11/18/24 09:52	1

Lab Sample ID: LCS 310-440006/5
 Matrix: Water
 Analysis Batch: 440006

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LB 310-439741/1-E
 Matrix: Water
 Analysis Batch: 440622

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 439905

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	<0.0916		0.0916	0.0202	ug/L		11/15/24 13:25	11/22/24 13:43	1
alpha-BHC	<0.0916		0.0916	0.00916	ug/L		11/15/24 13:25	11/22/24 13:43	1
beta-BHC	<0.0916		0.0916	0.0385	ug/L		11/15/24 13:25	11/22/24 13:43	1
gamma-BHC (Lindane)	<0.0916		0.0916	0.00916	ug/L		11/15/24 13:25	11/22/24 13:43	1
Chlordane (technical)	<1.83		1.83	0.357	ug/L		11/15/24 13:25	11/22/24 13:43	1
delta-BHC	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 13:43	1
Dieldrin	<0.0916		0.0916	0.0192	ug/L		11/15/24 13:25	11/22/24 13:43	1
4,4'-DDD	<0.0916		0.0916	0.0229	ug/L		11/15/24 13:25	11/22/24 13:43	1
4,4'-DDE	<0.0916		0.0916	0.0275	ug/L		11/15/24 13:25	11/22/24 13:43	1
4,4'-DDT	<0.0916		0.0916	0.0183	ug/L		11/15/24 13:25	11/22/24 13:43	1
Endosulfan I	<0.0916		0.0916	0.0257	ug/L		11/15/24 13:25	11/22/24 13:43	1
Endosulfan II	<0.0916		0.0916	0.0238	ug/L		11/15/24 13:25	11/22/24 13:43	1
Endosulfan sulfate	<0.0916		0.0916	0.0165	ug/L		11/15/24 13:25	11/22/24 13:43	1
Endrin	<0.0916		0.0916	0.0257	ug/L		11/15/24 13:25	11/22/24 13:43	1
Endrin aldehyde	<0.0916		0.0916	0.0247	ug/L		11/15/24 13:25	11/22/24 13:43	1
Heptachlor	<0.0916		0.0916	0.0211	ug/L		11/15/24 13:25	11/22/24 13:43	1
Heptachlor epoxide	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 13:43	1
Methoxychlor	<0.0916		0.0916	0.0293	ug/L		11/15/24 13:25	11/22/24 13:43	1
Toxaphene	<1.83		1.83	0.916	ug/L		11/15/24 13:25	11/22/24 13:43	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 310-439741/1-E
Matrix: Water
Analysis Batch: 440622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439905

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	77		10 - 136	11/15/24 13:25	11/22/24 13:43	1
Tetrachloro-m-xylene (Surr)	120		10 - 130	11/15/24 13:25	11/22/24 13:43	1

Lab Sample ID: MB 310-439905/1-A
Matrix: Water
Analysis Batch: 440622

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439905

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aldrin	<0.0904		0.0904	0.0199	ug/L		11/15/24 13:25	11/22/24 12:08	1
alpha-BHC	<0.0904		0.0904	0.00904	ug/L		11/15/24 13:25	11/22/24 12:08	1
beta-BHC	<0.0904		0.0904	0.0380	ug/L		11/15/24 13:25	11/22/24 12:08	1
gamma-BHC (Lindane)	<0.0904		0.0904	0.00904	ug/L		11/15/24 13:25	11/22/24 12:08	1
Chlordane (technical)	<1.81		1.81	0.353	ug/L		11/15/24 13:25	11/22/24 12:08	1
delta-BHC	<0.0904		0.0904	0.0289	ug/L		11/15/24 13:25	11/22/24 12:08	1
Dieldrin	<0.0904		0.0904	0.0190	ug/L		11/15/24 13:25	11/22/24 12:08	1
4,4'-DDD	<0.0904		0.0904	0.0226	ug/L		11/15/24 13:25	11/22/24 12:08	1
4,4'-DDE	<0.0904		0.0904	0.0271	ug/L		11/15/24 13:25	11/22/24 12:08	1
4,4'-DDT	<0.0904		0.0904	0.0181	ug/L		11/15/24 13:25	11/22/24 12:08	1
Endosulfan I	<0.0904		0.0904	0.0253	ug/L		11/15/24 13:25	11/22/24 12:08	1
Endosulfan II	<0.0904		0.0904	0.0235	ug/L		11/15/24 13:25	11/22/24 12:08	1
Endosulfan sulfate	<0.0904		0.0904	0.0163	ug/L		11/15/24 13:25	11/22/24 12:08	1
Endrin	<0.0904		0.0904	0.0253	ug/L		11/15/24 13:25	11/22/24 12:08	1
Endrin aldehyde	<0.0904		0.0904	0.0244	ug/L		11/15/24 13:25	11/22/24 12:08	1
Heptachlor	<0.0904		0.0904	0.0208	ug/L		11/15/24 13:25	11/22/24 12:08	1
Heptachlor epoxide	<0.0904		0.0904	0.0289	ug/L		11/15/24 13:25	11/22/24 12:08	1
Methoxychlor	<0.0904		0.0904	0.0289	ug/L		11/15/24 13:25	11/22/24 12:08	1
Toxaphene	<1.81		1.81	0.904	ug/L		11/15/24 13:25	11/22/24 12:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	19		10 - 136	11/15/24 13:25	11/22/24 12:08	1
Tetrachloro-m-xylene (Surr)	112		10 - 130	11/15/24 13:25	11/22/24 12:08	1

Lab Sample ID: LCS 310-439905/9-A
Matrix: Water
Analysis Batch: 440622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	2.67	3.556	*+	ug/L		133	36 - 127
beta-BHC	2.67	3.314		ug/L		124	37 - 136
gamma-BHC (Lindane)	2.67	3.551	*+	ug/L		133	36 - 132
delta-BHC	2.67	3.425		ug/L		128	33 - 134
Dieldrin	2.67	3.383		ug/L		127	39 - 130
4,4'-DDD	2.67	3.138		ug/L		118	36 - 149
4,4'-DDE	2.67	3.186		ug/L		119	34 - 130
4,4'-DDT	2.67	3.000		ug/L		112	23 - 150
Endosulfan I	2.67	3.153		ug/L		118	10 - 120
Endosulfan II	2.67	3.047		ug/L		114	14 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 310-439905/9-A
Matrix: Water
Analysis Batch: 440622

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Endosulfan sulfate	2.67	3.270		ug/L		123	36 - 147	
Endrin	2.67	3.558		ug/L		133	39 - 140	
Endrin aldehyde	2.67	2.924		ug/L		110	32 - 137	
Heptachlor	2.67	3.443	*+	ug/L		129	27 - 120	
Heptachlor epoxide	2.67	3.501		ug/L		131	38 - 133	
Methoxychlor	2.67	3.219		ug/L		121	10 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	115		10 - 136
Tetrachloro-m-xylene (Surr)	118		10 - 130

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: LB 310-439741/1-E
Matrix: Water
Analysis Batch: 440623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439905

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1221	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1232	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1242	<1.83		1.83	0.751	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1248	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1254	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1260	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 13:43	1
PCB-1268	<1.83		1.83	0.632	ug/L		11/15/24 13:25	11/22/24 13:43	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	77		10 - 136	11/15/24 13:25	11/22/24 13:43	1
Tetrachloro-m-xylene (Surr)	120		10 - 130	11/15/24 13:25	11/22/24 13:43	1

Lab Sample ID: MB 310-439905/1-A
Matrix: Water
Analysis Batch: 440623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439905

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<1.81		1.81	0.742	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1221	<1.81		1.81	0.742	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1232	<1.81		1.81	0.742	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1242	<1.81		1.81	0.742	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1248	<1.81		1.81	0.624	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1254	<1.81		1.81	0.624	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1260	<1.81		1.81	0.624	ug/L		11/15/24 13:25	11/22/24 12:08	1
PCB-1268	<1.81		1.81	0.624	ug/L		11/15/24 13:25	11/22/24 12:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	19		10 - 136	11/15/24 13:25	11/22/24 12:08	1
Tetrachloro-m-xylene (Surr)	112		10 - 130	11/15/24 13:25	11/22/24 12:08	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: LCS 310-439905/8-A
Matrix: Water
Analysis Batch: 440623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439905

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	25.8	31.23		ug/L		121	30 - 133
PCB-1260	25.8	25.57		ug/L		99	31 - 133

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	113		10 - 136
Tetrachloro-m-xylene (Surr)	124		10 - 130

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-796067/1-A
Matrix: Water
Analysis Batch: 796446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 796067

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	<1.00		1.00	0.307	ug/L		11/19/24 12:09	11/21/24 13:29	1
Silvex (2,4,5-TP)	<1.00		1.00	0.0834	ug/L		11/19/24 12:09	11/21/24 13:29	1
2,4,5-T	<1.00		1.00	0.144	ug/L		11/19/24 12:09	11/21/24 13:29	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCAA	61		25 - 130	11/19/24 12:09	11/21/24 13:29	1

Lab Sample ID: LCS 500-796067/2-A
Matrix: Water
Analysis Batch: 796446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 796067

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
2,4-D	10.1	7.860		ug/L		78	30 - 115
Silvex (2,4,5-TP)	2.50	1.952		ug/L		78	32 - 115
2,4,5-T	2.53	2.021		ug/L		80	30 - 115

Surrogate	LCS		Limits
	%Recovery	Qualifier	
DCAA	79		25 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-440099/1-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440099

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 17:44	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 17:44	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 17:44	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 17:44	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 17:44	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 17:44	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 17:44	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 17:44	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-440099/1-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440099

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 17:44	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 17:44	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 17:44	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 17:44	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 17:44	1
Tin	<0.00500		0.00500	0.00230	mg/L		11/19/24 09:30	11/19/24 17:44	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 17:44	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 17:44	1

Lab Sample ID: LCS 310-440099/2-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1906		mg/L		95	80 - 120
Barium	0.100	0.09801		mg/L		98	80 - 120
Beryllium	0.100	0.09668		mg/L		97	80 - 120
Cadmium	0.100	0.09459		mg/L		95	80 - 120
Chromium	0.100	0.1012		mg/L		101	80 - 120
Cobalt	0.100	0.1030		mg/L		103	80 - 120
Copper	0.200	0.2034		mg/L		102	80 - 120
Lead	0.200	0.1890		mg/L		95	80 - 120
Nickel	0.200	0.2043		mg/L		102	80 - 120
Selenium	0.400	0.3845		mg/L		96	80 - 120
Silver	0.100	0.1153		mg/L		115	80 - 120
Thallium	0.100	0.1011		mg/L		101	80 - 120
Tin	0.200	0.1896		mg/L		95	80 - 120
Vanadium	0.100	0.09905		mg/L		99	80 - 120
Zinc	0.200	0.1812		mg/L		91	80 - 120

Lab Sample ID: MB 310-440100/1-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440100

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		11/19/24 09:30	11/19/24 19:37	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/19/24 09:30	11/19/24 19:37	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/19/24 09:30	11/19/24 19:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/19/24 09:30	11/19/24 19:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/19/24 09:30	11/19/24 19:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/19/24 09:30	11/19/24 19:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/19/24 09:30	11/19/24 19:37	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/19/24 09:30	11/19/24 19:37	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/19/24 09:30	11/19/24 19:37	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/19/24 09:30	11/19/24 19:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/19/24 09:30	11/19/24 19:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/19/24 09:30	11/19/24 19:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/19/24 09:30	11/19/24 19:37	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-440100/1-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/19/24 09:30	11/19/24 19:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/19/24 09:30	11/19/24 19:37	1

Lab Sample ID: LCS 310-440100/2-A
Matrix: Water
Analysis Batch: 440318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1929		mg/L		96	80 - 120
Arsenic	0.200	0.1921		mg/L		96	80 - 120
Barium	0.100	0.1024		mg/L		102	80 - 120
Beryllium	0.100	0.09554		mg/L		96	80 - 120
Cadmium	0.100	0.09822		mg/L		98	80 - 120
Chromium	0.100	0.1041		mg/L		104	80 - 120
Cobalt	0.100	0.1061		mg/L		106	80 - 120
Copper	0.200	0.2089		mg/L		104	80 - 120
Lead	0.200	0.1975		mg/L		99	80 - 120
Nickel	0.200	0.2094		mg/L		105	80 - 120
Selenium	0.400	0.3873		mg/L		97	80 - 120
Silver	0.100	0.1198		mg/L		120	80 - 120
Thallium	0.100	0.1051		mg/L		105	80 - 120
Vanadium	0.100	0.1016		mg/L		102	80 - 120
Zinc	0.200	0.1801		mg/L		90	80 - 120

Lab Sample ID: 310-295278-5 MS
Matrix: Water
Analysis Batch: 440318

Client Sample ID: MW-11A
Prep Type: Total/NA
Prep Batch: 440100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.1930		mg/L		96	75 - 125
Arsenic	0.00611		0.200	0.2143		mg/L		104	75 - 125
Barium	0.0182		0.100	0.1254		mg/L		107	75 - 125
Beryllium	<0.00100		0.100	0.09418		mg/L		94	75 - 125
Cadmium	0.000415		0.100	0.1013		mg/L		101	75 - 125
Chromium	<0.00500		0.100	0.1015		mg/L		102	75 - 125
Cobalt	0.00201		0.100	0.1048		mg/L		103	75 - 125
Copper	<0.00500		0.200	0.1994		mg/L		100	75 - 125
Lead	0.000320	J	0.200	0.2068		mg/L		103	75 - 125
Nickel	0.0103		0.200	0.2108		mg/L		100	75 - 125
Selenium	<0.00500		0.400	0.4010		mg/L		100	75 - 125
Silver	<0.00100		0.100	0.1182		mg/L		118	75 - 125
Thallium	<0.00100		0.100	0.1114		mg/L		111	75 - 125
Vanadium	<0.00500		0.100	0.1027		mg/L		103	75 - 125
Zinc	<0.0200		0.200	0.1876		mg/L		94	75 - 125

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-295278-5 MSD
 Matrix: Water
 Analysis Batch: 440318

Client Sample ID: MW-11A
 Prep Type: Total/NA
 Prep Batch: 440100

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	<0.00200		0.200	0.1929		mg/L		96	75 - 125	0	20
Arsenic	0.00611		0.200	0.2126		mg/L		103	75 - 125	1	20
Barium	0.0182		0.100	0.1255		mg/L		107	75 - 125	0	20
Beryllium	<0.00100		0.100	0.09349		mg/L		93	75 - 125	1	20
Cadmium	0.000415		0.100	0.1012		mg/L		101	75 - 125	0	20
Chromium	<0.00500		0.100	0.1016		mg/L		102	75 - 125	0	20
Cobalt	0.00201		0.100	0.1046		mg/L		103	75 - 125	0	20
Copper	<0.00500		0.200	0.1989		mg/L		99	75 - 125	0	20
Lead	0.000320	J	0.200	0.2046		mg/L		102	75 - 125	1	20
Nickel	0.0103		0.200	0.2110		mg/L		100	75 - 125	0	20
Selenium	<0.00500		0.400	0.4041		mg/L		101	75 - 125	1	20
Silver	<0.00100		0.100	0.1186		mg/L		119	75 - 125	0	20
Thallium	<0.00100		0.100	0.1099		mg/L		110	75 - 125	1	20
Vanadium	<0.00500		0.100	0.1024		mg/L		102	75 - 125	0	20
Zinc	<0.0200		0.200	0.1892		mg/L		95	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-440555/1-A
 Matrix: Water
 Analysis Batch: 440724

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 440555

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200		0.000200	0.000110	mg/L		11/21/24 15:25	11/22/24 15:10	1

Lab Sample ID: LCS 310-440555/2-A
 Matrix: Water
 Analysis Batch: 440724

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 440555

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00167	0.001604		mg/L		96	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 310-440067/1-A
 Matrix: Water
 Analysis Batch: 440134

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 440067

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		11/18/24 09:00	11/18/24 21:23	1

Lab Sample ID: LCS 310-440067/2-A
 Matrix: Water
 Analysis Batch: 440134

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 440067

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Cyanide, Total	0.200	0.1913		mg/L		96	90 - 110

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-865118/1-A
Matrix: Water
Analysis Batch: 865185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 865118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10.0		10.0	10.0	mg/L		11/19/24 07:50	11/19/24 11:02	1

Lab Sample ID: LCS 680-865118/2-A
Matrix: Water
Analysis Batch: 865185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 865118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	208	135.4		mg/L		65	50 - 150

Lab Sample ID: LCSD 680-865118/3-A
Matrix: Water
Analysis Batch: 865185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 865118

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	208	127.4		mg/L		61	50 - 150	6	50

Lab Sample ID: 310-295278-2 MS
Matrix: Water
Analysis Batch: 865185

Client Sample ID: MW-5A
Prep Type: Total/NA
Prep Batch: 865118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<10.0		208	142.1		mg/L		68	50 - 150

Lab Sample ID: 310-295278-2 MSD
Matrix: Water
Analysis Batch: 865185

Client Sample ID: MW-5A
Prep Type: Total/NA
Prep Batch: 865118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<10.0		208	133.4		mg/L		64	50 - 150	6	50

Lab Sample ID: 310-295278-1 DU
Matrix: Water
Analysis Batch: 865185

Client Sample ID: MW-4A
Prep Type: Total/NA
Prep Batch: 865118

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<10.0		<10.0		mg/L		NC	50

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-439911/1
Matrix: Water
Analysis Batch: 439911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/15/24 13:46	1

QC Sample Results

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-439911/2
Matrix: Water
Analysis Batch: 439911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	112.0		mg/L		112	81 - 116

Lab Sample ID: MB 310-439961/1
Matrix: Water
Analysis Batch: 439961

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/15/24 17:27	1

Lab Sample ID: LCS 310-439961/2
Matrix: Water
Analysis Batch: 439961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	81 - 116

Lab Sample ID: MB 310-439968/1
Matrix: Water
Analysis Batch: 439968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/15/24 20:01	1

Lab Sample ID: LCS 310-439968/2
Matrix: Water
Analysis Batch: 439968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	81 - 116

Lab Sample ID: MB 310-440130/1
Matrix: Water
Analysis Batch: 440130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			11/18/24 19:46	1

Lab Sample ID: LCS 310-440130/2
Matrix: Water
Analysis Batch: 440130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	102.0		mg/L		102	81 - 116

QC Association Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

GC/MS VOA

Analysis Batch: 439876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-10	Trip blank 2	Total/NA	Water	8260D	
310-295278-11	Trip blank 3	Total/NA	Water	8260D	
MB 310-439876/5	Method Blank	Total/NA	Water	8260D	
LCS 310-439876/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-439876/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 439887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8260D	
310-295278-2	MW-5A	Total/NA	Water	8260D	
310-295278-3	MW-8A	Total/NA	Water	8260D	
MB 310-439887/5	Method Blank	Total/NA	Water	8260D	
LCS 310-439887/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-439887/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 440036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-4	MW-10R	Total/NA	Water	8260D	
310-295278-5	MW-11A	Total/NA	Water	8260D	
310-295278-6	MW-13R	Total/NA	Water	8260D	
310-295278-7	MW-14	Total/NA	Water	8260D	
310-295278-8	MW-D	Total/NA	Water	8260D	
310-295278-9	Trip blank 1	Total/NA	Water	8260D	
MB 310-440036/5	Method Blank	Total/NA	Water	8260D	
LCS 310-440036/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-440036/7	Lab Control Sample	Total/NA	Water	8260D	
310-295278-4 MS	MW-10R	Total/NA	Water	8260D	
310-295278-4 MSD	MW-10R	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 439992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	3510C	
310-295278-2	MW-5A	Total/NA	Water	3510C	
MB 310-439992/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-439992/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-439992/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 440064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8270E	439992
310-295278-2	MW-5A	Total/NA	Water	8270E	439992
MB 310-439992/1-A	Method Blank	Total/NA	Water	8270E	439992
LCS 310-439992/2-A	Lab Control Sample	Total/NA	Water	8270E	439992
LCSD 310-439992/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	439992

Analysis Batch: 440213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8270E	439992

QC Association Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

GC Semi VOA

Leach Batch: 439741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-439741/1-E	Method Blank	Total/NA	Water	1311	

Prep Batch: 439905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	3511	
310-295278-2	MW-5A	Total/NA	Water	3511	
LB 310-439741/1-E	Method Blank	Total/NA	Water	3511	439741
MB 310-439905/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-439905/8-A	Lab Control Sample	Total/NA	Water	3511	
LCS 310-439905/9-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 440006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8015C	
310-295278-2	MW-5A	Total/NA	Water	8015C	
MB 310-440006/4	Method Blank	Total/NA	Water	8015C	
LCS 310-440006/5	Lab Control Sample	Total/NA	Water	8015C	

Analysis Batch: 440622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8081B	439905
310-295278-2	MW-5A	Total/NA	Water	8081B	439905
LB 310-439741/1-E	Method Blank	Total/NA	Water	8081B	439905
MB 310-439905/1-A	Method Blank	Total/NA	Water	8081B	439905
LCS 310-439905/9-A	Lab Control Sample	Total/NA	Water	8081B	439905

Analysis Batch: 440623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8082A	439905
310-295278-2	MW-5A	Total/NA	Water	8082A	439905
LB 310-439741/1-E	Method Blank	Total/NA	Water	8082A	439905
MB 310-439905/1-A	Method Blank	Total/NA	Water	8082A	439905
LCS 310-439905/8-A	Lab Control Sample	Total/NA	Water	8082A	439905

Prep Batch: 796067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8151A	
310-295278-2	MW-5A	Total/NA	Water	8151A	
MB 500-796067/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-796067/2-A	Lab Control Sample	Total/NA	Water	8151A	

Analysis Batch: 796446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	8151A	796067
310-295278-2	MW-5A	Total/NA	Water	8151A	796067
MB 500-796067/1-A	Method Blank	Total/NA	Water	8151A	796067
LCS 500-796067/2-A	Lab Control Sample	Total/NA	Water	8151A	796067

QC Association Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Metals

Prep Batch: 440099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	3005A	
310-295278-2	MW-5A	Total/NA	Water	3005A	
310-295278-3	MW-8A	Total/NA	Water	3005A	
310-295278-4	MW-10R	Total/NA	Water	3005A	
MB 310-440099/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-440099/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 440100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-5	MW-11A	Total/NA	Water	3005A	
310-295278-6	MW-13R	Total/NA	Water	3005A	
310-295278-7	MW-14	Total/NA	Water	3005A	
310-295278-8	MW-D	Total/NA	Water	3005A	
MB 310-440100/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-440100/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-295278-5 MS	MW-11A	Total/NA	Water	3005A	
310-295278-5 MSD	MW-11A	Total/NA	Water	3005A	

Analysis Batch: 440318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	6020B	440099
310-295278-2	MW-5A	Total/NA	Water	6020B	440099
310-295278-3	MW-8A	Total/NA	Water	6020B	440099
310-295278-4	MW-10R	Total/NA	Water	6020B	440099
310-295278-5	MW-11A	Total/NA	Water	6020B	440100
310-295278-6	MW-13R	Total/NA	Water	6020B	440100
310-295278-7	MW-14	Total/NA	Water	6020B	440100
310-295278-8	MW-D	Total/NA	Water	6020B	440100
MB 310-440099/1-A	Method Blank	Total/NA	Water	6020B	440099
MB 310-440100/1-A	Method Blank	Total/NA	Water	6020B	440100
LCS 310-440099/2-A	Lab Control Sample	Total/NA	Water	6020B	440099
LCS 310-440100/2-A	Lab Control Sample	Total/NA	Water	6020B	440100
310-295278-5 MS	MW-11A	Total/NA	Water	6020B	440100
310-295278-5 MSD	MW-11A	Total/NA	Water	6020B	440100

Prep Batch: 440555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	7470A	
310-295278-2	MW-5A	Total/NA	Water	7470A	
MB 310-440555/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-440555/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 440724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	7470A	440555
310-295278-2	MW-5A	Total/NA	Water	7470A	440555
MB 310-440555/1-A	Method Blank	Total/NA	Water	7470A	440555
LCS 310-440555/2-A	Lab Control Sample	Total/NA	Water	7470A	440555

QC Association Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

General Chemistry

Analysis Batch: 439911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-6	MW-13R	Total/NA	Water	I-3765-85	
MB 310-439911/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439911/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 439961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	I-3765-85	
310-295278-4	MW-10R	Total/NA	Water	I-3765-85	
310-295278-7	MW-14	Total/NA	Water	I-3765-85	
MB 310-439961/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439961/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 439968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-2	MW-5A	Total/NA	Water	I-3765-85	
310-295278-3	MW-8A	Total/NA	Water	I-3765-85	
310-295278-8	MW-D	Total/NA	Water	I-3765-85	
MB 310-439968/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-439968/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Prep Batch: 440067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	9012B	
310-295278-2	MW-5A	Total/NA	Water	9012B	
MB 310-440067/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-440067/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 440130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-5	MW-11A	Total/NA	Water	I-3765-85	
MB 310-440130/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-440130/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 440134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	9012B	440067
310-295278-2	MW-5A	Total/NA	Water	9012B	440067
MB 310-440067/1-A	Method Blank	Total/NA	Water	9012B	440067
LCS 310-440067/2-A	Lab Control Sample	Total/NA	Water	9012B	440067

Prep Batch: 865118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	9030B	
310-295278-2	MW-5A	Total/NA	Water	9030B	
MB 680-865118/1-A	Method Blank	Total/NA	Water	9030B	
LCS 680-865118/2-A	Lab Control Sample	Total/NA	Water	9030B	
LCS 680-865118/3-A	Lab Control Sample Dup	Total/NA	Water	9030B	
310-295278-2 MS	MW-5A	Total/NA	Water	9030B	
310-295278-2 MSD	MW-5A	Total/NA	Water	9030B	
310-295278-1 DU	MW-4A	Total/NA	Water	9030B	

QC Association Summary

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

General Chemistry

Analysis Batch: 865185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-295278-1	MW-4A	Total/NA	Water	9034	865118
310-295278-2	MW-5A	Total/NA	Water	9034	865118
MB 680-865118/1-A	Method Blank	Total/NA	Water	9034	865118
LCS 680-865118/2-A	Lab Control Sample	Total/NA	Water	9034	865118
LCSD 680-865118/3-A	Lab Control Sample Dup	Total/NA	Water	9034	865118
310-295278-2 MS	MW-5A	Total/NA	Water	9034	865118
310-295278-2 MSD	MW-5A	Total/NA	Water	9034	865118
310-295278-1 DU	MW-4A	Total/NA	Water	9034	865118



Lab Chronicle

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-4A
Date Collected: 11/12/24 10:58
Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439887	FE5V	EET CF	11/16/24 19:02
Total/NA	Prep	3510C			439992	AYK7	EET CF	11/18/24 06:40
Total/NA	Analysis	8270E		1	440064	L0FS	EET CF	11/18/24 19:52
Total/NA	Prep	3510C			439992	AYK7	EET CF	11/18/24 06:40
Total/NA	Analysis	8270E		1	440213	L0FS	EET CF	11/19/24 17:20
Total/NA	Analysis	8015C		1	440006	V7YZ	EET CF	11/18/24 13:59
Total/NA	Prep	3511			439905	AYK7	EET CF	11/15/24 13:25
Total/NA	Analysis	8081B		1	440622	BW2O	EET CF	11/22/24 12:27
Total/NA	Prep	3511			439905	AYK7	EET CF	11/15/24 13:25
Total/NA	Analysis	8082A		1	440623	BW2O	EET CF	11/22/24 12:27
Total/NA	Prep	8151A			796067	LG	EET CHI	11/19/24 12:09
Total/NA	Analysis	8151A		1	796446	SB	EET CHI	11/21/24 17:48
Total/NA	Prep	3005A			440099	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:11
Total/NA	Prep	7470A			440555	QTZ5	EET CF	11/21/24 15:25
Total/NA	Analysis	7470A		1	440724	QTZ5	EET CF	11/22/24 15:55
Total/NA	Prep	9012B			440067	ENB7	EET CF	11/18/24 09:00
Total/NA	Analysis	9012B		1	440134	ZJX4	EET CF	11/18/24 21:31
Total/NA	Prep	9030B			865118	JAS	EET SAV	11/19/24 07:50
Total/NA	Analysis	9034		1	865185	JAS	EET SAV	11/19/24 11:02
Total/NA	Analysis	I-3765-85		1	439961	MDU9	EET CF	11/15/24 17:27

Client Sample ID: MW-5A
Date Collected: 11/13/24 13:04
Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439887	FE5V	EET CF	11/16/24 19:25
Total/NA	Prep	3510C			439992	AYK7	EET CF	11/18/24 06:40
Total/NA	Analysis	8270E		1	440064	L0FS	EET CF	11/18/24 20:19
Total/NA	Analysis	8015C		1	440006	V7YZ	EET CF	11/18/24 14:20
Total/NA	Prep	3511			439905	AYK7	EET CF	11/15/24 13:25
Total/NA	Analysis	8081B		1	440622	BW2O	EET CF	11/22/24 12:46
Total/NA	Prep	3511			439905	AYK7	EET CF	11/15/24 13:25
Total/NA	Analysis	8082A		1	440623	BW2O	EET CF	11/22/24 12:46
Total/NA	Prep	8151A			796067	LG	EET CHI	11/19/24 12:09
Total/NA	Analysis	8151A		1	796446	SB	EET CHI	11/21/24 18:06
Total/NA	Prep	3005A			440099	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:28
Total/NA	Prep	7470A			440555	QTZ5	EET CF	11/21/24 15:25
Total/NA	Analysis	7470A		1	440724	QTZ5	EET CF	11/22/24 15:57
Total/NA	Prep	9012B			440067	ENB7	EET CF	11/18/24 09:00
Total/NA	Analysis	9012B		1	440134	ZJX4	EET CF	11/18/24 21:32

Lab Chronicle

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-5A
 Date Collected: 11/13/24 13:04
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-2
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9030B			865118	JAS	EET SAV	11/19/24 07:50
Total/NA	Analysis	9034		1	865185	JAS	EET SAV	11/19/24 11:02
Total/NA	Analysis	I-3765-85		1	439968	MDU9	EET CF	11/15/24 20:01

Client Sample ID: MW-8A
 Date Collected: 11/13/24 12:14
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-3
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439887	FE5V	EET CF	11/16/24 19:48
Total/NA	Prep	3005A			440099	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:13
Total/NA	Analysis	I-3765-85		1	439968	MDU9	EET CF	11/15/24 20:01

Client Sample ID: MW-10R
 Date Collected: 11/12/24 13:42
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-4
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 19:38
Total/NA	Prep	3005A			440099	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:31
Total/NA	Analysis	I-3765-85		1	439961	MDU9	EET CF	11/15/24 17:27

Client Sample ID: MW-11A
 Date Collected: 11/13/24 11:28
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-5
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 20:00
Total/NA	Prep	3005A			440100	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:42
Total/NA	Analysis	I-3765-85		1	440130	MDU9	EET CF	11/18/24 19:46

Client Sample ID: MW-13R
 Date Collected: 11/12/24 11:53
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-6
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 20:23
Total/NA	Prep	3005A			440100	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 19:56
Total/NA	Analysis	I-3765-85		1	439911	DGU1	EET CF	11/15/24 13:46

Lab Chronicle

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Client Sample ID: MW-14
 Date Collected: 11/12/24 12:59
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-7
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 20:45
Total/NA	Prep	3005A			440100	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 20:11
Total/NA	Analysis	I-3765-85		1	439961	MDU9	EET CF	11/15/24 17:27

Client Sample ID: MW-D
 Date Collected: 11/13/24 11:28
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-8
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 21:08
Total/NA	Prep	3005A			440100	F5MW	EET CF	11/19/24 09:30
Total/NA	Analysis	6020B		1	440318	A6US	EET CF	11/19/24 20:14
Total/NA	Analysis	I-3765-85		1	439968	MDU9	EET CF	11/15/24 20:01

Client Sample ID: Trip blank 1
 Date Collected: 11/13/24 00:00
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-9
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	440036	WSE8	EET CF	11/18/24 18:52

Client Sample ID: Trip blank 2
 Date Collected: 11/13/24 00:00
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-10
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439876	WSE8	EET CF	11/17/24 14:28

Client Sample ID: Trip blank 3
 Date Collected: 11/13/24 00:00
 Date Received: 11/14/24 16:20

Lab Sample ID: 310-295278-11
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	439876	WSE8	EET CF	11/17/24 14:51

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8082A	3511	Water	PCB-1268
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Allyl chloride
8260D		Water	Ethyl methacrylate

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-25
ANAB	Dept. of Defense ELAP	L2463	09-22-26
Arkansas (DW)	State	GA00006	06-30-25
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25
Georgia (DW)	State	803	06-30-25
Guam	State	24-05R	04-17-25
Hawaii	State	<cert No.>	06-30-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	108138	06-30-24 *
Louisiana (All)	NELAP	30690	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-26
Maryland	State	250	12-31-24
Michigan	State	9925	03-05-25
Mississippi	State	<cert No.>	06-30-25
Nebraska	State	NE-OS-7-04	06-30-25
New Mexico	State	GA00006	06-30-25
North Carolina (DW)	State	13701	07-31-25
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24 *
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25
Wyoming	State	8TMS-L	06-30-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: SCS Engineers
 Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
 SDG: Harrison County Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9012B	Cyanide, Total and/or Amenable	SW846	EET CF
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET SAV
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CF
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET SAV

Protocol References:

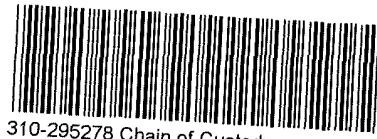
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
 USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
 EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Environment Testing
America



310-295278 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ScS</u>			
City/State:	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-14-24</u>	TIME <u>1620</u>	Received By: <u>PFI</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>5</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>MW 4A</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.8</u>		Corrected Temp (°C): <u>1.8</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-14-24</u>	TIME <u>10:20</u>	Received By: <u>PH</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>3</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>MW-5A, 8A, 13R</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.1</u>		Corrected Temp (°C): <u>3.1</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

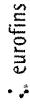
Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ScS</u>			
City/State:	<small>CITY</small> <u>West Des Moines</u>	<small>STATE</small> <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	<small>DATE</small> <u>11-14-24</u>	<small>TIME</small> <u>10:20</u>	Received By: <u>PF</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>3</u> of <u>3</u>
Cooler Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<u>MW-1GR, 1A, 14, D</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>4.7</u>		Corrected Temp (°C): <u>4.7</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
a) If yes: Is there evidence that the chilling process began?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?)		<input type="checkbox"/> Yes	<input type="checkbox"/> No
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way



Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. db/a Eurofins TestAmerica

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Date		COC No.			
SCS Engineers Sean Marczewski 1690 All-State Court, Suite 100 West Des Moines, IA 50265		Email: smarczewski@scsengineers.com Cell: 712-861-9882		Lab Contact:		Carrier:		Sampler: <u>163045 16304</u> of <u>163045 16304</u> COCs			
Project Name: Harrison County Fall 2024 GW Site: Harrison County Landfill P.O.# 2722447025		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS Other: <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Form Ms / MSD (Y / N)		Appendix I		Appendix II			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Metals List	Total Suspended Solids	Silvex (2,4,5-TP)	Trip Blank	Sample Specific Notes:
MW-1A	11-12-24	10:58	G	H ₂ O			X	X			
MW-4A	11-13-24	13:04	G	H ₂ O			X	X			
MW-5A	11-13-24	12:14	G	H ₂ O			X	X			
MW-8A	11-12-24	13:42	G	H ₂ O			X	X			
MW-10R	11-13-24	11:28	G	H ₂ O			X	X			
MW-11A							X	X			
MW-12B							X	X			
MW-13R	11-12-24	11:53	G	H ₂ O			X	X			
MW-14	11-12-24	12:59	G	H ₂ O			X	X			
MW-16							X	X			
MW-17							X	X			
MW-D	11-13-24	11:28	G	H ₂ O			X	X			
Trip Blank											
Preservation Used: 1=Ice, 2=HCl, 3=H ₂ SO ₄ , 4=HNO ₃ , 5=NaOH, 6=Other Possible Hazard Identification: _____ Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. <input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown											
Special Instructions/OC Requirements & Comments: Please include trip blanks in all coolers with VOC containers. Metals List: antimony, arsenic, barium, cobalt, copper, lead, nickel, and zinc.											
Relinquished by: <u>Homeer Beth</u>		Custody Seal No: <u>565</u>		Company: <u>SCS</u>		Date/Time: <u>11-14-20</u>		Cooler Temp. (°C): <u>14.00</u>		Therm ID No.: _____	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>WHT</u>		Company:		Date/Time: <u>11-14-24 10:00</u>	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months



Eurofins Cedar Falls

3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record



eurofins | Environment Testing

Client Information (Sub Contract Lab)			Sampler: N/A		Lab PM: Miller, Samuel			Carrier Tracking No(s): N/A			COC No: 310-78438 1			
Client Contact: Shipping/Receiving			Phone: N/A		E-Mail: Samuel.Miller@et.eurofinsus.com			State of Origin: Iowa			Page: Page 1 of 1			
Company: Eurofins Environment Testing North Centr					Accreditations Required (See note): State Program - Iowa					Job #: 310-295278-1				
Address: 2417 Bond Street, City: University Park State Zip: IL, 60484			Due Date Requested: 12/2/2024		Analysis Requested							Preservation Codes 310-295278 COC		
Phone: 708-534-5200(Tel) 708-534-5211(Fax)			TAT Requested (days): N/A											
Email: N/A			PO #: N/A											
Project Name: Harrison County Fall 2024 GW			WO #: N/A											
Site: N/A			Project #: 31013809		Field Filtered Sample (Yes or No):			Perform MS/MSD (Yes or No):			Total Number of containers:			
SSOW#: N/A			Project #: 31013809		8151A/B151A_AP Default List						Other: N/A			
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:			Special Instructions/Note:				
MW-4A (310-295278-1)			11/12/24	10 58 Central	G	Water	X			1				
MW-5A (310-295278-2)			11/13/24	13 04 Central	G	Water	X			1				
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>														
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I, II, III, IV, Other (specify)			Primary Deliverable Rank 2			Special Instructions/QC Requirements								
Empty Kit Relinquished by:				Date		Time		Method of Shipment:						
Relinquished by:				Date/Time: 11/24/24 12:10		Company:		Received by:			Date/Time: 11/16/24 09:35		Company: EEA	
Relinquished by:				Date/Time:		Company:		Received by:			Date/Time:		Company:	
Relinquished by:				Date/Time:		Company:		Received by:			Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks: 1.0 → 0.7								



Eurofins Cedar Falls

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)					Sampler: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-78440.1	
Client Contact: Shipping/Receiving					Phone: N/A	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1	
Company: Eurofins Environment Testing Southeast L					Accreditations Required (See note): State Program - Iowa			Job #: 310-295278-1	
Address: 5102 LaRoche Avenue, City: Savannah State, Zip: GA, 31404			Due Date Requested: 12/2/2024		Analysis Requested				Preservation Codes: -
Phone: 912-354-7858(Tel) 912-352-0165(Fax)			TAT Requested (days): N/A						
Email: N/A			PO #: N/A						
Project Name: Harrison County Fall 2024 GW			WO #: N/A						
Site: N/A			Project #: 31013809						
					SSOW#: N/A		Other: N/A		
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	
							9034/9030B	Total Number of Containers	
					Preservation Code:			Special Instructions/Note:	
MW-4A (310-295278-1)			11/12/24	10:58 Central	G	Water	X	2	
MW-5A (310-295278-2)			11/13/24	13:04 Central	G	Water	X	2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>									
<p>Possible Hazard Identification</p> <p>Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)</p>					<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>				
<p>Primary Deliverable Rank: 2</p>					<p>Special Instructions/QC Requirements:</p>				
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:				
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:		
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:		
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:		
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No				3.1 / 3.1					

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-295278-1
SDG Number: Harrison County Landfill

Login Number: 295278

List Number: 1

Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-295278-1
SDG Number: Harrison County Landfill

Login Number: 295278

List Number: 3

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

List Creation: 11/16/24 07:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-295278-1
SDG Number: Harrison County Landfill

Login Number: 295278

List Number: 2

Creator: Lincoln, Alyssa

List Source: Eurofins Savannah

List Creation: 11/16/24 01:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Harrison County Fall 2024 GW

Job ID: 310-295278-1
SDG: Harrison County Landfill

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16


B-2: 2024 Data Validation Documentation

QA/QC Completed by: Konner Roth
 Sample Date: 6/20/2024
 Site Name: Harrison County Sanitary Landfill
 Sample Delivery Group: N/A
 Project Type: Harrison County Sanitary Landfill - 1st 2024 Semi-Annual Groundwater Sampling Event
 Laboratory: Eurofins TestAmerica, Cedar Falls
 Lab Job ID: 310-248268-1
 Lab Report Date: 7/15/2024

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			
Trip Blank Detections	X			
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-425611 recovered above the upper control limit for Trichlorofluoromethane (29.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-425611/4).
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			A field duplicate sample was collected at MW-11A. RPD for analyzed parameters was <50%.

QA/QC Completed by: Konner Roth
 Sample Date: 11/12/2024
 Site Name: Harrison County Sanitary Landfill
 Sample Delivery Group: N/A
 Project Type: Harrison County Sanitary Landfill - 2nd 2024 Semi-Annual Groundwater Sampling Event
 Laboratory: Eurofins TestAmerica, Cedar Falls
 Lab Job ID: 310-295278-1
 Lab Report Date: 11/25/2024

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation		X		Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: Trip blank 2 (310-295278-10) and Trip blank 3 (310-295278-11). The requested target analyte list includes Acrylonitrile, an acid-labile compound that degrades in an acidic medium.
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			
Trip Blank Detections	X			
Accuracy				
ICV/CCV		X		<p>Method 8270E: The continuing calibration verification (CCV) associated with batch 310 440064 recovered above the upper control limit for Ethyl parathion (24.4%D), Phenacetin (21.6%D), Di-n-butyl phthalate (21.5%D), Pronamide (22.5%D), Methyl parathion (39.3%D), 3-Nitroaniline (20.3%D), 5 Nitro-o-toluidine (28.2%D), Disulfoton (23.8%D), Pentachloronitrobenzene (25.6%D), Phorate (22.1%D), Hexachloropropene (32.4%D), Di-n-octyl phthalate (23.2%D) and 2-Nitrophenol (24.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.</p> <p>Method 8270E: The continuing calibration verification (CCV) associated with batch 310 440213 recovered above the upper control limit for 4 Chloroaniline (28.0%D), 1,3-Dinitrobenzene (28.2%D), Benzyl alcohol (23.5 D) and Di-n-octyl phthalate (23.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.</p>
LCS/LCSD		X		Method 8081B: The laboratory control sample (LCS) for preparation batch 310-439905 and analytical batch 310-440622 recovered outside control limits for the following analytes: Aldrin, alpha-BHC, gamma-BHC (Lindane) and Heptachlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.
MS/MSD	X			
Surrogates (organics only)		X		<p>Method 8151A: Surrogate recovery for the following sample was outside the upper control limit: MW-5A (310-295278-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.</p> <p>Method 8082A: Surrogate recovery for the following sample was outside control limits: MW-4A (310-295278-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.</p>
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			A field duplicate sample was collected at MW-11A. RPD for analyzed parameters was <50%.



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry

Harrison County Sanitary Landfill - 43-SDP-05-94P

Total Metals Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Antimony, mg/L (CAS NO - 7440-36-0)	2/5/2008	N/A	N/A	N/A	N/A	< 0.006	N/A	< 0.006	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.006	N/A	< 0.006	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.006	N/A	< 0.006	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 0.006	N/A	< 0.006	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/15/2009	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.00635	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00715	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A
	10/28/2010	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A
	4/5/2011	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A
	10/5/2011	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A
	10/5/2011	N/A	N/A	< 0.006	N/A	N/A	N/A	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/17/2012	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A
	10/17/2012	< 0.012	N/A	< 0.012	< 0.012	< 0.006	< 0.006	< 0.012	N/A	N/A	< 0.006	N/A	N/A
	4/22/2013	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A
	4/22/2013	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.006	N/A	< 0.006	< 0.006	< 0.006	0.00171*	< 0.006	< 0.006	N/A	0.00133*	N/A	N/A
	10/17/2013	N/A	N/A	< 0.006	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.006	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	10/31/2014	< 0.006	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.000625*	N/A	0.000177*	< 0.001	0.0016	0.000699*	0.00149	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	0.00259	N/A	N/A	N/A	N/A	N/A
	10/6/2015	0.000979*	N/A	0.000177*	N/A	< 0.001	0.000433*	0.000328*	0.000592*	N/A	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.000508*	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.00113	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.00098*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.000329*	N/A	< 0.001	0.000732*	< 0.001	0.000407*	0.000488*	< 0.001	0.000363*	N/A	N/A	N/A
	4/14/2016	0.00048*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.000262*	N/A	< 0.001	< 0.001	< 0.001	0.00066*	< 0.001	< 0.001	0.000363*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.001	N/A	0.000411*	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.000228*	N/A	< 0.001	< 0.001	N/A	0.000252*	0.000589*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/27/2017	0.000333*	N/A	< 0.001	0.000353*	0.00049*	N/A	0.000611*	0.000262*	N/A	N/A	N/A	N/A	
7/27/2017	0.000287*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	0.000435*	0.00149	< 0.001	0.0016	< 0.001	N/A	0.000764*	< 0.001	0.00279	N/A	N/A	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000634*	< 0.001	N/A	N/A	N/A	
8/1/2018	< 0.001	< 0.001	< 0.001	0.00216	0.000426*	0.000479*	0.000549*	0.00155	0.00121	N/A	N/A	N/A	
8/1/2018	N/A	N/A	N/A	0.00303	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	< 0.001	< 0.001	< 0.001	0.00134	< 0.001	0.000439*	0.000423*	< 0.001	< 0.001	N/A	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.000534*	N/A	N/A	N/A	
10/3/2019	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	0.00187	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	
5/5/2020	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	0.000657*	< 0.001	< 0.001	N/A	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	0.000973*	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	
3/30/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0011*	< 0.002	< 0.002	N/A	0.00143*	
3/30/2021	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/31/2021	N/A	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	
11/8/2021	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/11/2022	N/A	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	0.000786*	N/A	N/A	N/A	< 0.002	
8/23/2022	N/A	< 0.002	< 0.002	N/A	< 0.002	0.000823*	0.000793*	N/A	< 0.002	N/A	N/A	< 0.002	
5/25/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00113*	0.00207	< 0.002	N/A	N/A	< 0.002	
5/25/2023	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	< 0.002	
9/26/2023	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	0.00223	N/A	N/A	N/A	< 0.002	0.001*	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 0.002	< 0.002	< 0.002	< 0.002	0.00203	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	
Arsenic, mg/L (CAS NO - 7440-38-2)	2/5/2008	N/A	N/A	N/A	N/A	0.51	N/A	0.0166	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	0.0139	N/A	0.0035	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	0.0145	N/A	0.0498	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0251	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0288	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	0.0104	N/A	0.00777	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	0.0158	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	0.00229	N/A	0.00322	0.00624	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	0.00108	N/A	0.00295	0.00357	0.00893	0.00628	0.0261	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	0.00641	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	0.00282	N/A	0.00596	0.0025	0.00821	0.0136	0.0388	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	0.0151	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	0.00424	N/A	0.00308	< 0.001	0.0184	0.00839	0.0144	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0349	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Arsenic, mg/L (CAS NO - 7440-38-2)												
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.00797	N/A	N/A	0.00426	N/A	N/A
	10/28/2010	0.00112	N/A	0.00716	< 0.001	0.0238	0.00629	0.0177	N/A	0.001	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0398	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0164	N/A	N/A
	4/5/2011	0.0029	N/A	0.0092	0.0107	< 0.004	0.0118	0.0122	N/A	0.00721	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	0.00899	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00261	N/A	N/A
	10/5/2011	0.00575	N/A	0.00398	0.011	< 0.001	0.00107	0.0258	N/A	0.00585	N/A	N/A
	10/5/2011	N/A	N/A	0.00116	N/A	N/A	N/A	0.00375	N/A	N/A	N/A	N/A
	4/17/2012	< 0.001	N/A	0.00624	< 0.001	0.00101	0.0135	0.0144	N/A	0.00264	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	0.00246	N/A	N/A
	10/17/2012	0.00181	N/A	0.00432	0.00426	< 0.002	0.0234	0.043	N/A	0.00937	N/A	N/A
	4/22/2013	< 0.001	N/A	0.0183	0.00173	0.00142	0.00584	0.023	N/A	0.0128	N/A	N/A
	4/22/2013	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.001	N/A	0.00265	0.00453	0.00686	0.0101	0.0732	N/A	0.0218	N/A	N/A
	10/17/2013	N/A	N/A	0.00284	N/A	N/A	0.00783	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	N/A	N/A	0.0258	N/A	N/A	N/A	N/A
	4/10/2014	< 0.001	N/A	0.00345	< 0.001	< 0.001	0.00565	0.0268	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.001	N/A	0.00365	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.001	N/A	0.00413	0.00327	0.00417	0.00859	0.0264	N/A	N/A	N/A	N/A
	10/31/2014	< 0.001	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.00123*	N/A	0.0124	< 0.002	0.00287	0.00585	0.00417	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.0119	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A
	10/6/2015	0.00101*	N/A	0.0063	N/A	0.00299	0.00195*	0.0128	0.00293	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.00208	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00149*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00135*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.00183*	N/A	0.00406	0.00377	0.00148*	0.00276	0.00708	0.00317	0.00624	N/A	N/A
	4/14/2016	0.00137*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.00128*	N/A	0.00197*	0.00221	0.00108*	0.00201	0.00916	0.00413	0.00371	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.00222	N/A	0.00184*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.00103*	N/A	0.0048	0.00199*	N/A	0.00433	0.0148	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.00389	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.00192*	N/A	0.00262	0.00191*	0.0021	N/A	0.00754	0.00261	N/A	N/A	N/A
	7/27/2017	0.00179*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	0.000716*	0.00136*	0.00272	0.00521	0.000889*	N/A	0.00805	0.00231	< 0.002	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00758	0.00215	N/A	N/A	N/A
	8/1/2018	0.000975*	0.00234	0.00139*	0.00282	0.00249	0.00196*	0.00756	0.0041	0.000938*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.00208	0.00241	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	0.000875*	0.00196*	0.00298	0.0016*	0.00291	0.00218	0.009	0.004	0.00162*	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00436	0.00167*	N/A	N/A
	10/3/2019	N/A	0.00198*	N/A	N/A	0.00201	0.00078*	0.00748	N/A	0.00182*	N/A	0.000817*
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.00842	N/A	N/A	N/A	N/A
	5/5/2020	< 0.002	0.00198*	N/A	N/A	0.00212	< 0.002	0.00769	0.0095	0.00204	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.0031	0.00177*	0.00642	0.00186*	< 0.002	0.00771	N/A	0.00171*	N/A	< 0.002
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.00781	N/A	N/A	N/A	N/A
	3/30/2021	< 0.002	0.00205	0.0127	0.0148	0.000946*	0.000761*	0.0151	0.00363	0.00236	N/A	0.00148*
	3/30/2021	N/A	N/A	N/A	0.0145	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	0.00204	N/A	N/A	0.00226	0.000855*	0.00847	N/A	0.00171*	0.00384	< 0.002
	11/8/2021	N/A	N/A	N/A	0.00178*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	0.00181*	N/A	N/A	0.00101*	< 0.002	0.0117	N/A	N/A	N/A	< 0.002
	8/23/2022	N/A	0.00192*	0.0025	N/A	0.00194*	0.000991*	0.0128	N/A	0.00232	N/A	0.00106*
	5/25/2023	< 0.002	0.00194*	0.00675	0.00278	0.000697*	< 0.002	0.00581	0.00354	0.000969*	N/A	< 0.002
	5/25/2023	N/A	N/A	N/A	N/A	0.000843*	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.00484	N/A	N/A	0.00118*	0.000768*	0.00671	N/A	0.00102*	N/A	0.000647*
	9/26/2023	N/A	N/A	N/A	N/A	0.00115*	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	0.00229	N/A	N/A	N/A	0.00079*	0.00739	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.007	N/A	N/A	N/A	N/A
	11/12/2024	N/A	0.00198*	0.00154*	0.00769	0.0408	0.000674*	0.00623	N/A	0.0014*	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00611	N/A	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)												
	2/5/2008	N/A	N/A	N/A	N/A	0.321	N/A	0.0578	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	0.147	N/A	0.0191	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	0.0496	N/A	0.0367	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0357	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0341	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	0.0527	N/A	0.0232	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0686	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	0.594	N/A	0.704	0.714	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	0.646	N/A	0.446	0.506	0.0428	0.216	0.0513	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	0.219	N/A	N/A	N/A	N/A	N/A
	10/8/2009	0.615	N/A	0.36	0.47	0.0397	0.251	0.124	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	0.196	N/A	N/A	N/A	N/A	N/A
	4/27/2010	0.289	N/A	0.478	0.477	0.0509	0.328	0.048	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.136	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.281	N/A	N/A	0.719	N/A	N/A
	10/28/2010	0.469	N/A	0.349	0.446	0.0505	0.178	0.0783	N/A	0.456	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0458	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.83	N/A	N/A
	4/5/2011	0.4	N/A	0.488	0.426	0.0267	0.0688	0.339	N/A	1.31	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	0.0425	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.414	N/A	N/A
	10/5/2011	0.585	N/A	0.462	0.527	0.027	0.167	0.0871	N/A	0.408	N/A	N/A
	10/5/2011	N/A	N/A	0.274	N/A	N/A	N/A	0.0214	N/A	N/A	N/A	N/A
	4/17/2012	0.617	N/A	0.399	0.459	0.0314	0.217	0.105	N/A	0.499	N/A	N/A
	4/17/2012	N/A	N/A	N/A	0.452	N/A	N/A	N/A	N/A	0.368	N/A	N/A
	10/17/2012	0.788	N/A	0.49	0.398	0.0265	0.24	0.078	N/A	0.614	N/A	N/A

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Summary of Groundwater Chemistry
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Total Metals Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Barium, mg/L (CAS NO - 7440-39-3)	4/22/2013	0.664	N/A	0.744	0.424	0.0443	0.154	0.0398	N/A	2.12	N/A	N/A
	4/22/2013	0.674	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	0.627	N/A	0.59	0.452	0.0375	0.175	0.0448	N/A	1.23	N/A	N/A
	10/17/2013	N/A	N/A	0.507	N/A	N/A	0.178	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0297	N/A	N/A
	4/10/2014	0.682	N/A	0.69	0.464	0.0157	0.167	0.0478	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	0.399	N/A	0.32	N/A	N/A	N/A	N/A	N/A
	10/31/2014	0.672	N/A	0.303	0.472	0.0217	0.272	0.0773	N/A	N/A	N/A	N/A
	10/31/2014	0.629	N/A	N/A	N/A	N/A	0.0438	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.686	N/A	0.612	0.451	0.044	0.207	0.0962	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.573	N/A	N/A	N/A	0.11	N/A	N/A	N/A	N/A
	10/6/2015	0.759	N/A	0.44	N/A	0.0214	0.123	0.0235	0.566	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.123	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.51	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.547	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.747	N/A	0.453	0.627	0.0222	0.122	0.0153	0.36	0.587	N/A	N/A
	4/14/2016	0.794	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.711	N/A	0.479	0.49	0.0201	0.103	0.0124	0.339	0.39	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.496	N/A	0.102	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.664	N/A	0.324	0.432	N/A	0.128	0.0174	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.399	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.602	N/A	0.481	0.483	0.0467	N/A	0.0139	0.378	N/A	N/A	N/A
	7/27/2017	0.601	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	0.65	0.109	0.414	0.484	0.0253	N/A	0.0163	0.529	0.0725	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.0136	0.589	N/A	N/A	N/A
	8/1/2018	0.702	0.16	0.434	0.344	0.0421	0.112	0.0153	0.554	0.0714	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.477	0.0413	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	0.791	0.165	0.518	0.497	0.0584	0.113	0.0142	0.366	0.0968	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.367	0.0999	N/A	N/A
	10/3/2019	N/A	0.192	N/A	N/A	0.0334	0.0726	0.0147	N/A	0.136	N/A	0.0774
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.0146	N/A	N/A	N/A	N/A
	5/5/2020	0.807	0.197	N/A	N/A	0.0315	0.0562	0.0142	0.374	0.131	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	0.0601	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.189	0.54	0.515	0.0284	0.0548	0.0137	N/A	0.128	N/A	0.0361
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.0145	N/A	N/A	N/A	N/A
	3/30/2021	0.822	0.205	0.377	0.892	0.0228	0.0668	0.0175	0.543	0.145	N/A	0.0367
	3/30/2021	N/A	N/A	N/A	0.946	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	0.205	N/A	N/A	0.0209	0.0616	0.0172	N/A	0.126	0.13	0.0258
	11/8/2021	N/A	N/A	N/A	0.426	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	0.19	N/A	N/A	0.0186	0.054	0.0142	N/A	N/A	N/A	0.0277
	8/23/2022	N/A	0.203	0.589	N/A	0.0208	0.0649	0.016	N/A	0.127	N/A	0.0335
	5/25/2023	0.808	0.215	0.657	0.452	0.0197	0.0528	0.0148	0.594	0.108	N/A	0.0258
	5/25/2023	N/A	N/A	N/A	N/A	0.0219	N/A	N/A	N/A	N/A	N/A	N/A
9/26/2023	N/A	0.22	N/A	N/A	0.0198	0.0599	0.0155	N/A	0.103	N/A	0.0245	
9/26/2023	N/A	N/A	N/A	N/A	0.0206	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	0.213	N/A	N/A	N/A	0.0584	0.0151	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0149	N/A	N/A	N/A	N/A	
11/12/2024	N/A	0.199	0.62	0.56	0.139	0.0644	0.0158	N/A	0.0969	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0182	N/A	N/A	N/A	N/A	
Beryllium, mg/L (CAS NO - 7440-41-7)	2/5/2008	N/A	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.001	N/A	0.00262	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.001	N/A	< 0.001	0.00186	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.00167	< 0.001	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.001	N/A	< 0.001	< 0.001	0.00259	< 0.001	0.00145	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	0.00549	N/A	N/A
	10/28/2010	< 0.001	N/A	< 0.001	< 0.001	0.00143	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.00426	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0129	N/A	N/A
	4/5/2011	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	0.00546	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A
	10/5/2011	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	0.00151	N/A	< 0.001	N/A	N/A
	10/5/2011	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	4/17/2012	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	0.0012	N/A	N/A
	10/17/2012	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	4/22/2013	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	0.00658	N/A	N/A
	4/22/2013	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.001	N/A	< 0.001	0.000389*	< 0.001	< 0.001	0.000398*	N/A	0.00412	N/A	N/A
	10/17/2013	N/A	N/A	< 0.001	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.001	N/A	< 0.001	< 0.001	0.000327*	0.000973*	0.000754*	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.001	N/A	0.000236*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.000602*	0.00102	N/A	N/A	N/A	N/A
	10/31/2014	< 0.001	N/A	N/A	N/A	0.000245*	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.001	N/A	< 0.001	< 0.001	0.000127*	0.000053*	0.000084*	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/6/2015	< 0.001	N/A	0.000046*	N/A	< 0.001	< 0.001	< 0.001	0.000061*	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	10/21/2015	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000495*	N/A
	4/14/2016	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	10/4/2016	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.001	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.000133*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.001	N/A	< 0.001	< 0.001	0.000141*	N/A	0.000135*	< 0.001	N/A	N/A	N/A
	7/27/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.001	< 0.001	< 0.001	< 0.001	0.00396	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A
	8/1/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000418*	< 0.001	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0034	< 0.001	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00431	< 0.001	N/A	N/A
	10/3/2019	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	0.00771	< 0.001	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	0.000413*	< 0.001	N/A	< 0.001
	8/31/2021	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001
	3/11/2022	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	8/23/2022	N/A	< 0.001	N/A	N/A	0.000352*	0.000413*	< 0.001	N/A	< 0.001	N/A	< 0.001
	5/25/2023	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	0.000489*	< 0.001	N/A	< 0.001
	5/25/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	9/26/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.001	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
11/12/2024	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	
Cadmium, mg/L (CAS NO - 7440-43-9)	2/5/2008	N/A	N/A	N/A	N/A	0.00148	N/A	0.000522	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	0.00193	N/A	< 0.0005	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	0.00116	N/A	0.00191	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0023	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	0.00374	N/A	0.00164	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0024	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.0005	N/A	0.000904	0.00183	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.0005	N/A	< 0.0005	0.000793	0.00124	< 0.0005	0.00113	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.0005	N/A	< 0.0005	< 0.0005	0.00113	0.000515	0.00258	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	0.000839	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.0005	N/A	< 0.0005	< 0.0005	0.00687	0.000617	0.0023	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.00127	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.00321	N/A	N/A	0.00154	N/A	N/A
	10/28/2010	< 0.0005	N/A	< 0.0005	< 0.0005	0.00708	< 0.0005	0.00208	N/A	< 0.0005	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.00357	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00606	N/A	N/A
	4/5/2011	0.000978	N/A	< 0.0005	0.00145	0.00249	0.000986	0.00225	N/A	0.00327	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	0.00147	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A
	10/5/2011	< 0.0005	N/A	0.00185	0.0058	0.00169	0.00488	0.00119	N/A	0.00121	N/A	N/A
	10/5/2011	N/A	N/A	0.00472	N/A	N/A	N/A	0.0013	N/A	N/A	N/A	N/A
	4/17/2012	0.00157	N/A	0.000772	0.000688	0.0044	< 0.0005	0.001	N/A	0.000603	N/A	N/A
	4/17/2012	N/A	N/A	N/A	0.000754	N/A	N/A	N/A	N/A	0.00116	N/A	N/A
	10/17/2012	0.00358	N/A	0.000623	< 0.001	0.000626	0.00238	0.00188	N/A	0.000603	N/A	N/A
	4/22/2013	< 0.0005	N/A	0.00164	< 0.0005	0.00116	< 0.0005	0.000584	N/A	0.00521	N/A	N/A
	4/22/2013	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	0.000319*	N/A	0.00138	0.00103	0.00338	0.0148	0.00157	N/A	0.00586	N/A	N/A
	10/17/2013	N/A	N/A	0.00104	N/A	N/A	0.000208*	N/A	N/A	N/A	N/A	N/A
	4/10/2014	0.000134*	N/A	0.000436*	0.0003*	0.000416*	0.000682	0.000569	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	0.000303*	N/A	0.000148*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	0.000986	N/A	0.000363*	0.000656	0.000937	0.000738	0.000943	N/A	N/A	N/A	N/A
	10/31/2014	0.000211*	N/A	N/A	N/A	0.00321	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.000211*	N/A	0.000112*	0.000212*	0.00107	0.000563	0.00136	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.000208*	N/A	N/A	N/A	0.00185	N/A	N/A	N/A	N/A
	10/6/2015	< 0.0005	N/A	0.000304*	N/A	0.00017*	< 0.0005	0.000426*	0.00075	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000422*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000401*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/14/2016	0.000102*	N/A	0.000042*	0.000144*	0.000165*	0.00037*	0.000269*	0.000334*	0.000639	N/A	N/A	
4/14/2016	0.000067*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	0.00034*	N/A	0.000039*	0.000062*	0.00035*	0.000258*	0.00052	< 0.0005	0.00022*	N/A	N/A	
10/4/2016	N/A	N/A	N/A	0.000077*	N/A	0.000275*	N/A	N/A	N/A	N/A	N/A	
4/11/2017	0.000109*	N/A	0.000167*	< 0.0005	N/A	0.000223*	0.000373*	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	0.000136*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/27/2017	0.000179*	N/A	0.000209*	0.000068*	0.00112	N/A	0.000454*	0.00053	N/A	N/A	N/A	
7/27/2017	0.000142*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	0.000068*	< 0.0005	< 0.0005	0.000176*	0.000388*	N/A	0.000634	0.000129*	< 0.0005	N/A	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.000436*	0.000124*	N/A	N/A	N/A	
8/1/2018	0.000112*	< 0.0005	< 0.0005	0.000282*	0.00278	0.000185*	0.000372*	0.00247	< 0.0005	N/A	N/A	
8/1/2018	N/A	N/A	N/A	0.000438*	0.00199	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 0.0005	0.000468*	0.000358*	0.00109	0.00244	0.000356*	< 0.0005	< 0.0005	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	

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	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Chromium, mg/L (CAS NO - 7440-47-3)	8/23/2022	N/A	< 0.005	N/A	N/A	0.0024*	< 0.005	< 0.005	N/A	< 0.005	N/A	0.00322*
	5/25/2023	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.0696	< 0.005	N/A	< 0.005
	5/25/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.00173*	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.005	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.005	< 0.005	0.0168	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/8/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.06	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/27/2010	0.00305	N/A	0.00447	0.00376	0.0203	0.0281	0.0188	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0178	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.019	N/A	N/A	0.011	N/A	N/A
	10/28/2010	< 0.00155	N/A	< 0.00155	0.00311	0.0111	0.00541	0.012	N/A	0.00702	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0232	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0743	N/A	N/A
	4/5/2011	< 0.00155	N/A	< 0.00155	0.0073	0.00252	0.0097	0.00217	N/A	0.0337	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	0.00706	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00429	N/A	N/A
	10/5/2011	< 0.00155	N/A	< 0.00155	0.0269	< 0.00155	< 0.00155	0.0121	N/A	0.00392	N/A	N/A
	10/5/2011	N/A	N/A	< 0.00155	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A
	4/17/2012	< 0.00155	N/A	< 0.00155	< 0.00155	0.00161	0.0151	0.00919	N/A	0.00894	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.00155	N/A	N/A	N/A	N/A	0.00506	N/A	N/A
	10/17/2012	0.00288	N/A	0.00211	0.00397	0.00596	0.0143	0.0107	N/A	0.00944	N/A	N/A
	4/22/2013	0.00183	N/A	0.00563	0.00533	0.0117	0.00502	0.00778	N/A	0.0395	N/A	N/A
	4/22/2013	0.0015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.00132	N/A	< 0.00132	0.0137	0.00832	0.00725	0.0131	N/A	0.0298	N/A	N/A
	10/17/2013	N/A	N/A	< 0.00132	N/A	N/A	0.00791	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	N/A	N/A	0.00727	N/A	0.00992	N/A	N/A
	4/10/2014	< 0.00241	N/A	< 0.00241	0.00314	0.00516	0.0242	0.00689	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.00241	N/A	0.00616	N/A	N/A	N/A	N/A	N/A
	7/30/2014	N/A	N/A	N/A	N/A	N/A	0.00449	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.00241	N/A	< 0.00241	0.00462	0.00671	0.0124	0.0142	N/A	N/A	N/A	N/A
	10/31/2014	< 0.00241	N/A	N/A	N/A	0.00854	N/A	N/A	N/A	N/A	N/A	N/A
	3/17/2015	N/A	N/A	N/A	N/A	N/A	0.00456	N/A	N/A	N/A	N/A	N/A
	4/7/2015	N/A	N/A	N/A	N/A	N/A	0.0109	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.000164*	N/A	0.00407	0.00126	0.0037	0.00361	0.0208	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.00362	N/A	N/A	N/A	0.022	N/A	N/A	N/A	N/A
	10/6/2015	< 0.0005	N/A	0.00113	N/A	0.00589	0.00658	0.0034	0.000727	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.000826	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00705	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00724	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.000071*	N/A	0.000352*	0.00551	0.00515	0.00361	0.00222	0.0157	0.00873	N/A	N/A
	4/14/2016	0.00004*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.00007*	N/A	0.000222*	0.00144	0.00592	0.00112	0.00196	0.0168	0.00219	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.00146	N/A	0.000644	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.000079*	N/A	0.000892	0.00119	N/A	0.00484	0.00214	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.000719	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.000839	N/A	0.000472*	0.00217	0.00724	N/A	0.00171	0.00668	N/A	N/A	N/A
	7/27/2017	0.000882	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	0.000393*	0.000535	0.000237*	0.00445	0.00919	N/A	0.00196	0.00152	0.000381*	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00187	0.00171	N/A	N/A	N/A
	8/1/2018	0.000282*	0.000425*	0.000295*	0.0035	0.00813	0.000499*	0.0017	0.00258	0.000575	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.00256	0.00797	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	0.000222*	0.000317*	0.000491*	0.00365	0.00564	0.001	0.00144	0.0113	0.000716	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0118	0.000588	N/A	N/A
	10/3/2019	N/A	0.000241*	N/A	N/A	0.0107	0.000196*	0.00197	N/A	0.00054	N/A	0.00056
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.002	N/A	N/A	N/A	N/A
	5/5/2020	0.000758	0.000109*	N/A	N/A	0.00652	0.000126*	0.00133	0.0197	0.00107	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	0.000107*	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.00105	0.000279*	0.00764	0.00584	0.000395*	0.00203	N/A	0.0014	N/A	0.000159*
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.002	N/A	N/A	N/A	N/A
	3/30/2021	0.000938	0.000245*	0.00132	0.05	0.00632	0.00101	0.00269	0.00703	0.000535	N/A	0.00133
	3/30/2021	N/A	N/A	N/A	0.0527	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	0.000424*	N/A	N/A	0.00616	0.000738	0.00199	N/A	0.00121	0.0082	0.000316*
	11/8/2021	N/A	N/A	N/A	0.00529	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	0.0002*	N/A	N/A	0.00632	0.000411*	0.0029	N/A	N/A	N/A	0.000809
	8/23/2022	N/A	< 0.0005	0.000352*	N/A	0.00684	0.000227*	0.00235	N/A	0.000714	N/A	0.0014
	5/25/2023	0.000523	0.000308*	0.000797	0.00772	0.00681	0.00025*	0.00162	0.0201	0.000248*	N/A	0.000748
	5/25/2023	N/A	N/A	N/A	N/A	0.00663	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.0012	N/A	N/A	0.0058	< 0.0005	0.00231	N/A	< 0.0005	N/A	0.000616
	9/26/2023	N/A	N/A	N/A	N/A	0.00576	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	0.00041*	N/A	N/A	N/A	< 0.0005	0.00221	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00209	N/A	N/A	N/A	N/A
	11/12/2024	N/A	0.000221*	< 0.0005	0.0217	0.0274	0.00019*	0.00205	N/A	0.000352*	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00201	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Copper, mg/L (CAS NO - 7440-50-8)	2/5/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0261	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.02	N/A	0.0707	< 0.02	< 0.02	< 0.02	< 0.06	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.02	N/A	< 0.02	< 0.02	0.0476	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	0.0283	N/A	N/A
	10/28/2010	< 0.02	N/A	< 0.02	< 0.02	0.0655	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0318	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0655	N/A	N/A
	4/5/2011	< 0.02	N/A	0.0439	< 0.02	0.0686	0.0298	< 0.02	N/A	0.0596	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	0.0353	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.022	N/A	N/A
	10/5/2011	< 0.02	N/A	< 0.02	0.0482	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/5/2011	N/A	N/A	0.0344	N/A	N/A	N/A	0.0246	N/A	N/A	N/A	N/A
	4/17/2012	< 0.02	N/A	0.0836	< 0.02	0.0207	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/17/2012	< 0.02	N/A	0.0218	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/22/2013	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	0.0221	N/A	N/A
	4/22/2013	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.02	N/A	0.0118*	0.0113*	0.0069*	< 0.02	0.00615*	N/A	0.0339	N/A	N/A
	10/17/2013	N/A	N/A	0.0152*	N/A	N/A	0.0041*	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0345	N/A	N/A
	4/10/2014	< 0.02	N/A	0.00659*	0.00432*	< 0.02	< 0.02	0.00499*	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	0.00473*	0.00656*	0.00545*	0.0139*	0.0136*	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	N/A	N/A	0.0135*	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.00185*	N/A	0.00148*	0.000966*	0.00547	0.00266	0.000805*	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.00294	N/A	N/A	N/A	0.00411	N/A	N/A	N/A	N/A
	10/6/2015	0.000981*	N/A	0.00144*	N/A	< 0.002	< 0.002	< 0.002	0.00344	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.000931*	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00222	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00223	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0013*	0.0057	N/A	N/A
	4/14/2016	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00181*	< 0.005	< 0.005	0.00154*	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.005	N/A	0.00174*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.005	N/A	< 0.005	< 0.005	0.00272*	N/A	< 0.005	0.00379*	N/A	N/A	N/A
	7/27/2017	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.005	< 0.005	< 0.005	0.0158	0.501	N/A	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A
	8/1/2018	< 0.005	< 0.005	< 0.005	0.0105	0.0267	< 0.005	< 0.005	0.0176	< 0.005	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.0144	0.0235	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	< 0.005	< 0.005	0.00292*	0.00845	0.00523	0.00893	< 0.005	0.506	< 0.005	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.397	< 0.005	N/A	N/A
	10/3/2019	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	< 0.005
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/5/2020	< 0.005	< 0.005	N/A	N/A	0.0059	< 0.005	< 0.005	0.928	< 0.005	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 0.005	< 0.005	0.00442*	0.0044*	< 0.005	< 0.005	N/A	< 0.005	N/A	0.00193*
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/30/2021	< 0.005	< 0.005	0.0038*	< 0.005	< 0.005	< 0.005	< 0.005	0.0858	< 0.005	N/A	0.00383*
	3/30/2021	N/A	N/A	N/A	0.00203*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	0.0014*	< 0.005
	11/8/2021	N/A	N/A	N/A	0.0032*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	8/23/2022	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	0.00496*
	5/25/2023	0.00543	< 0.005	0.00284*	< 0.005	< 0.005	< 0.005	< 0.005	0.0386	< 0.005	N/A	< 0.005
	5/25/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.005	N/A	N/A	N/A	< 0.005	0.00249*	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.005	< 0.005	< 0.005	0.0245	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	2/5/2008	N/A	N/A	N/A	N/A	0.00983	N/A	0.00471	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.004	N/A	< 0.004	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	0.0044	N/A	0.0128	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.00663	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0058	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	0.00405	N/A	< 0.004	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0108	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.004	N/A	0.0053	0.0138	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.004	N/A	< 0.004	< 0.004	< 0.004	< 0.004	0.00912	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.004	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	0.00858	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
 Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Lead, mg/L (CAS NO - 7439-92-1)												
	4/27/2010	< 0.004	N/A	< 0.004	< 0.004	0.0119	< 0.004	0.0217	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0121	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0398	N/A	N/A	N/A	N/A
	10/28/2010	< 0.004	N/A	< 0.004	< 0.004	0.00991	< 0.004	0.017	N/A	0.00796	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0169	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0973	N/A	N/A
	4/5/2011	< 0.004	N/A	< 0.004	0.00471	0.00402	0.00577	< 0.004	N/A	0.0267	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.00665	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	10/5/2011	< 0.004	N/A	< 0.004	< 0.004	< 0.004	< 0.004	0.0237	N/A	< 0.004	N/A	N/A
	10/5/2011	N/A	N/A	< 0.004	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A
	4/17/2012	< 0.004	N/A	< 0.004	< 0.004	< 0.004	< 0.004	0.00695	N/A	0.0113	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	0.00536	N/A	N/A
	10/17/2012	< 0.004	N/A	0.0095	< 0.004	< 0.004	< 0.004	0.0166	N/A	0.0104	N/A	N/A
	4/22/2013	< 0.004	N/A	0.00855	< 0.004	0.00738	0.00425	0.0152	N/A	0.026	N/A	N/A
	4/22/2013	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.004	N/A	0.0016*	0.00861	0.00216*	0.00152*	0.0145	N/A	0.0352	N/A	N/A
	10/17/2013	N/A	N/A	0.00147*	N/A	N/A	0.00194*	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.004	N/A	0.0019*	< 0.004	< 0.004	< 0.004	0.0116	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.004	N/A	0.00232*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.004	N/A	< 0.004	0.00378*	0.0159	0.0115	0.0267	N/A	N/A	N/A	N/A
	10/31/2014	< 0.004	N/A	N/A	N/A	0.00702	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.00018*	N/A	0.000477*	< 0.0005	0.000899	0.00225	0.000648	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.000534	N/A	N/A	N/A	0.0122	N/A	N/A	N/A	N/A
	10/6/2015	< 0.0005	N/A	0.00205	N/A	0.00011*	0.00032*	0.00101	0.000936	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.000355*	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000116*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000124*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.0005	N/A	< 0.0005	< 0.0005	0.000601	0.000612	< 0.0005	0.000427*	0.00635	N/A	N/A
	4/14/2016	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.0005	N/A	< 0.0005	< 0.0005	0.000357*	0.000789	0.000272*	< 0.0005	0.00166	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.0005	N/A	0.000447*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.0005	N/A	0.000611	< 0.0005	N/A	0.00304	0.000539	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.000728	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.0005	N/A	0.000634	< 0.0005	0.00225	N/A	< 0.0005	0.00112	N/A	N/A	N/A
	7/27/2017	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.0005	< 0.0005	< 0.0005	0.000715	0.000483*	N/A	< 0.0005	0.000269*	< 0.0005	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A
	8/1/2018	< 0.0005	0.00106	< 0.0005	0.00162	0.00329	0.000958	< 0.0005	0.00869	< 0.0005	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.00152	0.00307	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	< 0.0005	< 0.0005	0.000582	0.000729	0.00143	0.00165	< 0.0005	0.000718	< 0.0005	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000516	< 0.0005	N/A	N/A
	10/3/2019	N/A	< 0.0005	N/A	N/A	0.00343	< 0.0005	< 0.0005	N/A	< 0.0005	N/A	0.00102
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	5/5/2020	< 0.0005	< 0.0005	N/A	N/A	0.00124	< 0.0005	< 0.0005	0.00096	< 0.0005	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.0006	0.000311*	0.00155	0.00134	0.000166*	< 0.0005	N/A	< 0.0005	N/A	0.000306*
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/30/2021	< 0.0005	0.000252*	0.00046*	0.0134	< 0.0005	0.000398*	0.000416*	0.00301	< 0.0005	N/A	0.00233
	3/30/2021	N/A	N/A	N/A	0.0159	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	0.000276*	N/A	N/A	< 0.0005	0.000313*	< 0.0005	N/A	< 0.0005	0.00106	< 0.0005
	11/8/2021	N/A	N/A	N/A	0.000681	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	0.000298*	N/A	N/A	N/A	0.000606
	8/23/2022	N/A	< 0.0005	0.000533	N/A	0.000385*	< 0.0005	0.000313*	N/A	< 0.0005	N/A	0.00165
	5/25/2023	0.000724	0.000498*	0.00157	0.00076	0.000754	< 0.0005	0.000505	0.00981	< 0.0005	N/A	< 0.0005
	5/25/2023	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.00138	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	N/A	0.000336*
	9/26/2023	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.0005	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.0005	< 0.0005	0.00215	0.00356	< 0.0005	< 0.0005	N/A	< 0.0005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00032*	N/A	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)												
	2/24/2009	< 0.0002	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A
	2/18/2019	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)												
	2/5/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	0.0612	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0709	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0673	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	0.0555	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.05	N/A	< 0.05	0.0933	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	0.0524	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	10/8/2009	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.15	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.05	N/A	< 0.05	< 0.05	0.0761	0.065	< 0.25	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0658	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.0592	N/A	N/A	< 0.05	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Nickel, mg/L (CAS NO - 7440-02-0)	10/28/2010	< 0.05	N/A	< 0.05	< 0.05	0.0919	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.15	N/A	N/A
	4/5/2011	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	0.0775	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/5/2011	< 0.05	N/A	< 0.05	0.0954	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	10/5/2011	N/A	N/A	< 0.05	N/A	N/A	N/A	0.0521	N/A	N/A	N/A	N/A
	4/17/2012	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/17/2012	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	4/22/2013	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	0.102	N/A	N/A
	4/22/2013	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	0.00415*	N/A	0.0107*	0.043*	0.0408*	0.00682*	0.0419*	N/A	0.0801	N/A	N/A
	10/17/2013	N/A	N/A	0.00891*	N/A	N/A	0.00783*	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	0.0801	N/A	0.0353*	N/A	0.0482*	N/A	N/A
	4/10/2014	< 0.05	N/A	0.015*	0.015*	0.0418*	0.0307*	0.0366*	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	0.0112*	N/A	0.00718*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.05	N/A	< 0.05	0.0215*	0.0304*	0.0216*	0.0524	N/A	N/A	N/A	N/A
	10/31/2014	< 0.05	N/A	N/A	N/A	0.0279*	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.00419*	N/A	0.00709	0.0106	0.039	0.00864	0.0776	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.0111	N/A	N/A	N/A	0.0494	N/A	N/A	N/A	N/A
	10/6/2015	0.00197*	N/A	0.00582	N/A	0.0381	0.00168*	0.0179	0.0713	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.0017*	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.0251	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.0253	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.00234*	N/A	0.00286*	0.00889	0.0352	0.00538	0.0143	0.0478	0.0239	N/A	N/A
	4/14/2016	0.00267*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.0079	N/A	0.00191*	0.00412*	0.0337	0.00278*	0.0101	0.0414	0.01	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.00415*	N/A	0.00218*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.00579	N/A	0.00446*	0.00396*	N/A	0.0074	0.014	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.00529	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.0104	N/A	0.00328*	0.00869	0.0446	N/A	0.0115	0.0537	N/A	N/A	N/A
	7/27/2017	0.0102	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	0.00527	0.00197*	0.00254*	0.025	0.0318	N/A	0.0093	0.035	0.0017*	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00885	0.043	N/A	N/A	N/A
	8/1/2018	0.00552	< 0.005	0.00133*	0.0219	0.0452	0.0016*	0.0126	0.0371	0.00131*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.0162	0.0464	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	0.0062	< 0.005	0.00251*	0.0198	0.0427	0.0115	0.0109	0.033	< 0.005	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0319	0.0011*	N/A	N/A
	10/3/2019	N/A	< 0.005	N/A	N/A	0.0464	< 0.005	0.0114	N/A	< 0.005	N/A	0.00447*
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.0113	N/A	N/A	N/A	N/A
	5/5/2020	0.00724	< 0.005	N/A	N/A	0.038	< 0.005	0.0113	0.0405	< 0.005	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.00239*	0.00259*	0.0227	0.0394	< 0.005	0.0105	N/A	< 0.005	N/A	< 0.005
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.0107	N/A	N/A	N/A	N/A
	3/30/2021	0.00828	< 0.005	0.00631	0.277	0.0383	0.00508	0.0124	0.105	< 0.005	N/A	0.0114
	3/30/2021	N/A	N/A	N/A	0.318	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	< 0.005	N/A	N/A	0.0339	< 0.005	0.0104	N/A	< 0.005	0.0474	0.00358*
	11/8/2021	N/A	N/A	N/A	0.0234	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 0.005	N/A	N/A	0.0317	< 0.005	0.00951	N/A	N/A	N/A	0.00299*
	8/23/2022	N/A	< 0.005	< 0.005	N/A	0.041	< 0.005	0.0106	N/A	< 0.005	N/A	0.006
	5/25/2023	0.00887	< 0.005	0.00486*	0.0159	0.0384	< 0.005	0.0125	0.136	< 0.005	N/A	0.00509
	5/25/2023	N/A	N/A	N/A	N/A	0.0395	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.00348*	N/A	N/A	0.0345	< 0.005	0.0119	N/A	< 0.005	N/A	0.0045*
	9/26/2023	N/A	N/A	N/A	N/A	0.0347	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	0.00213*	N/A	N/A	N/A	< 0.005	0.0109	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0113	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.005	< 0.005	0.0638	0.0569	< 0.005	0.0105	N/A	< 0.005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0103	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	2/5/2008	N/A	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	0.00829	N/A	< 0.005	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0197	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A
	10/28/2010	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	4/5/2011	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	10/5/2011	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	10/5/2011	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	4/17/2012	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	10/17/2012	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	4/22/2013	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	4/22/2013	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
 Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Selenium, mg/L (CAS NO - 7782-49-2)												
	10/17/2013	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00111*	< 0.005	N/A	< 0.005	N/A	N/A
	10/17/2013	N/A	N/A	< 0.005	N/A	N/A	0.000478*	N/A	N/A	N/A	N/A	N/A
	4/10/2014	0.00117*	N/A	0.000675*	< 0.005	< 0.005	0.00431*	< 0.005	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.005	N/A	0.00232*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00342*	< 0.005	N/A	N/A	N/A	N/A
	10/31/2014	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.0081	< 0.025	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	0.00638	N/A	N/A	N/A	N/A
	10/6/2015	< 0.005	N/A	< 0.005	N/A	< 0.005	0.00966	< 0.005	< 0.005	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.00853	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00804	< 0.005	< 0.005	0.000959*	N/A	N/A
	4/14/2016	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00731	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.005	N/A	0.00744	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00863	< 0.005	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.005	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A
	7/27/2017	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.005	0.00112*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A
	8/1/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00861	< 0.005	< 0.005	< 0.005	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00762	< 0.005	< 0.005	< 0.005	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	10/3/2019	N/A	< 0.005	N/A	N/A	< 0.005	0.00483*	< 0.005	N/A	< 0.005	N/A	0.0013*
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 0.005	N/A	N/A	< 0.005	0.0063	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	0.00702	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 0.005	N/A	N/A	< 0.005	0.00485*	< 0.005	N/A	< 0.005	N/A	0.00163*
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.005	N/A	N/A	< 0.005	0.00478*	< 0.005	< 0.005	< 0.005	N/A	< 0.005
	8/31/2021	N/A	< 0.005	N/A	N/A	< 0.005	0.00632	< 0.005	N/A	< 0.005	< 0.005	< 0.005
	3/11/2022	N/A	< 0.005	N/A	N/A	< 0.005	0.00608	< 0.005	N/A	N/A	N/A	0.00105*
	8/23/2022	N/A	< 0.005	N/A	N/A	0.00218*	0.00863	< 0.005	N/A	< 0.005	N/A	< 0.005
	5/25/2023	N/A	< 0.005	N/A	N/A	< 0.005	0.00714	< 0.005	< 0.005	< 0.005	N/A	< 0.005
	5/25/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 0.005	N/A	N/A	< 0.005	0.00585	< 0.005	N/A	< 0.005	N/A	< 0.005
	9/26/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.005	N/A	N/A	N/A	0.00841	< 0.005	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00636	< 0.005	N/A	< 0.005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)												
	2/5/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.02	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.06	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	< 0.02	N/A	N/A
	10/28/2010	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	4/5/2011	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/5/2011	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/5/2011	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	4/17/2012	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/17/2012	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/22/2013	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	4/22/2013	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/17/2013	N/A	N/A	< 0.02	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.001	N/A	0.000124*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	10/6/2015	< 0.001	N/A	0.000136*	N/A	< 0.001	< 0.001	< 0.001	0.000162*	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000098*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000104*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	4/14/2016	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A

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	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents	Silver, mg/L (CAS NO - 7440-22-4)											
	4/11/2017	< 0.001	N/A	0.000147*	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	N/A
	7/27/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A
	8/1/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A
	10/3/2019	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001
	8/31/2021	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001
	3/11/2022	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	8/23/2022	N/A	< 0.001	N/A	N/A	N/A	0.00142	0.00146	< 0.001	N/A	< 0.001	N/A
5/25/2023	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001
5/25/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9/26/2023	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001	
9/26/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6/20/2024	N/A	< 0.001	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
11/12/2024	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	N/A
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	2/5/2008	N/A	N/A	N/A	N/A	< 0.002	N/A	< 0.002	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.002	N/A	< 0.002	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.002	N/A	< 0.002	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.002	N/A	< 0.002	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.002	N/A	< 0.002	< 0.002	0.00249	< 0.002	0.0031	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	< 0.002	N/A
	10/28/2010	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/5/2011	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A
	10/5/2011	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	10/5/2011	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	4/17/2012	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	10/17/2012	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	4/22/2013	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A
	4/22/2013	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	0.000968*	N/A	0.00105*	0.000994*	0.00113*	0.00102*	0.000964*	N/A	0.00156*	N/A	N/A
	10/17/2013	N/A	N/A	0.00109*	N/A	N/A	0.000931*	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.002	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	10/31/2014	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	10/31/2014	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.000034*	0.000318*	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	0.00041*	N/A	N/A	N/A	N/A
	10/6/2015	< 0.001	N/A	0.000066*	N/A	0.000087*	< 0.001	0.000044*	0.000091*	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000048*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000054*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.001	N/A	< 0.001	< 0.001	0.000072*	< 0.001	0.00003*	0.000086*	0.00005*	N/A	N/A
4/14/2016	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 0.001	N/A	< 0.001	< 0.001	0.000074*	< 0.001	< 0.001	0.000059*	0.00003*	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 0.001	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	
4/11/2017	< 0.001	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/27/2017	< 0.001	N/A	< 0.001	< 0.001	0.000476*	N/A	0.00027*	0.000123*	N/A	N/A	N/A	
7/27/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	
8/1/2018	< 0.001	< 0.001	< 0.001	< 0.001	0.0007*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 0.001	0.00057*	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 0.001	< 0.001	< 0.001	0.000174*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	
10/3/2019	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	

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	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Thallium, mg/L (CAS NO - 7440-28-0)	9/29/2020	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	0.00054*	< 0.001	N/A	< 0.001
	8/31/2021	N/A	< 0.001	N/A	N/A	0.000408*	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001
	3/11/2022	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	8/23/2022	N/A	< 0.001	N/A	N/A	0.00076*	0.000894*	< 0.001	N/A	< 0.001	N/A	< 0.001
	5/25/2023	N/A	0.000861*	N/A	N/A	0.000989*	0.000633*	0.000782*	0.00134	0.00055*	N/A	0.000658*
	5/25/2023	N/A	N/A	N/A	N/A	0.00101	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	< 0.001
	9/26/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.001	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.001	< 0.001	< 0.001	0.000724*	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
Tin, mg/L (CAS NO - 7440-31-5)	2/24/2009	< 0.1	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	0.109	0.115	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/6/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/4/2016	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.005	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	N/A	N/A	< 0.005	0.00097*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/1/2018	N/A	N/A	0.000908*	0.00223*	N/A	N/A	N/A	N/A	0.00128*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.00176*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	N/A	< 0.005	0.001*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	2/5/2008	N/A	N/A	N/A	N/A	0.0588	N/A	< 0.05	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.05	N/A	< 0.05	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.05	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.15	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.05	N/A	< 0.05	< 0.05	0.0575	< 0.05	< 0.25	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	< 0.05	N/A	N/A
	10/28/2010	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.0767	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0956	N/A	N/A
	4/5/2011	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	0.0516	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/5/2011	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	10/5/2011	N/A	N/A	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	4/17/2012	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/17/2012	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	N/A	N/A
	4/22/2013	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	0.0586	N/A	N/A
	4/22/2013	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.05	N/A	0.00369*	0.00806*	0.00622*	0.00527*	0.00881*	N/A	0.0538	N/A	N/A
	10/17/2013	N/A	N/A	0.00524*	N/A	N/A	0.00313*	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0244*	N/A	N/A
	4/10/2014	< 0.05	N/A	0.00599*	< 0.05	< 0.05	0.0218*	0.00417*	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.05	N/A	0.00459*	N/A	N/A	N/A	N/A	N/A
	10/31/2014	0.00317*	N/A	0.00676*	0.00576*	0.00682*	0.0423*	0.0347*	N/A	N/A	N/A	N/A
	10/31/2014	0.00368*	N/A	N/A	N/A	0.0139*	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	0.00253*	N/A	0.00247*	0.00112*	0.00265*	0.00495*	0.00593	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.00284*	N/A	N/A	N/A	0.00376*	N/A	N/A	N/A	N/A
	10/6/2015	0.00175*	N/A	0.00779	N/A	0.000838*	0.00335*	0.000505*	0.00282*	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	0.00343*	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.000937*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.00092*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.002*	N/A	0.00198*	0.00138*	0.000859*	0.00431*	< 0.005	0.00102*	0.00696	N/A	N/A
	4/14/2016	0.00185*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.00154*	N/A	0.00179*	0.000802*	0.000719*	0.00331*	< 0.005	0.000401*	0.00213*	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.000662*	N/A	0.00386*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.00121*	N/A	0.00285*	< 0.005	N/A	0.0096	< 0.005	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.00356*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.00151*	N/A	0.00333*	< 0.005	0.00218*	N/A	< 0.005	0.00105*	N/A	N/A	N/A
	7/27/2017	0.00145*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	0.000982*	0.0018*	0.00147*	0.001*	0.00138*	N/A	< 0.005	0.00125*	0.00134*	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.000835*	0.00118*	N/A	N/A	N/A
	8/1/2018	0.00118*	0.000852*	0.00154*	0.00103*	0.00298*	0.00344*	< 0.005	0.0131	0.000987*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.00153*	0.00296*	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 0.005	0.00247*	0.000877*	0.0051	0.00454*	< 0.005	< 0.005	0.000812*	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000663*	0.000585*	N/A	N/A

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Summary of Groundwater Chemistry
 Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Vanadium, mg/L (CAS NO - 7440-62-2)	10/3/2019	N/A	< 0.005	N/A	N/A	0.00522	0.00231*	< 0.005	N/A	< 0.005	N/A	0.0023*
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 0.005	N/A	N/A	0.00234*	0.00235*	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	0.00267*	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.00138*	N/A	N/A	0.0027*	0.00255*	< 0.005	N/A	< 0.005	N/A	0.00131*
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.005	N/A	N/A	< 0.005	0.00308*	< 0.005	0.00464*	< 0.005	N/A	0.00353*
	8/31/2021	N/A	0.0011*	N/A	N/A	< 0.005	0.00289*	< 0.005	N/A	< 0.005	0.00169*	< 0.005
	3/11/2022	N/A	< 0.005	N/A	N/A	0.00123*	0.00285*	< 0.005	N/A	N/A	N/A	0.00177*
	8/23/2022	N/A	< 0.005	N/A	N/A	0.00121*	0.00252*	< 0.005	N/A	< 0.005	N/A	0.00263*
	5/25/2023	N/A	< 0.005	N/A	N/A	0.00128*	0.00305*	< 0.005	0.0142	< 0.005	N/A	0.00161*
	5/25/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	0.00399*	N/A	N/A	0.0014*	0.00284*	< 0.005	N/A	< 0.005	N/A	0.00199*
	9/26/2023	N/A	N/A	N/A	N/A	0.00147*	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	0.00446*	N/A	N/A	N/A	0.00223*	< 0.005	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.005	< 0.005	0.00508	0.00478*	0.00204*	< 0.005	N/A	< 0.005	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	2/5/2008	N/A	N/A	N/A	N/A	0.0586	N/A	< 0.06	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	0.0284	N/A	< 0.1	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	0.11	N/A	0.126	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	0.0408	N/A	< 0.1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	0.0534	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	0.0371	N/A	0.157	0.139	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	0.0309	N/A	0.0712	0.0725	0.0769	0.0567	0.0879	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	0.0517	N/A	N/A	N/A	N/A	N/A
	10/8/2009	0.0291	N/A	0.0883	0.0594	0.103	0.0749	0.365	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	0.0922	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	0.052	N/A	N/A	0.089	N/A	N/A
	10/28/2010	0.0341	N/A	0.0658	0.0682	0.107	0.0293	0.0359	N/A	0.06	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	0.191	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.189	N/A	N/A
	4/5/2011	< 0.02	N/A	0.0466	< 0.02	0.0269	< 0.1	< 0.02	N/A	0.0542	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/5/2011	< 0.02	N/A	0.0279	0.0564	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	10/5/2011	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	4/17/2012	< 0.02	N/A	0.0674	< 0.02	< 0.02	0.0251	< 0.06	N/A	0.0334	N/A	N/A
	4/17/2012	N/A	N/A	N/A	0.0228	N/A	N/A	N/A	N/A	0.0288	N/A	N/A
	10/17/2012	0.0343	N/A	0.0974	< 0.02	< 0.02	< 0.02	< 0.02	N/A	0.0233	N/A	N/A
	4/22/2013	0.0585	N/A	0.216	0.058	0.0967	0.0531	0.0721	N/A	0.141	N/A	N/A
	4/22/2013	0.0373	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	0.0802	N/A	0.132	0.169	0.203	0.0955	0.166	N/A	0.219	N/A	N/A
	10/17/2013	N/A	N/A	0.138	N/A	N/A	0.105	N/A	N/A	N/A	N/A	N/A
	2/6/2014	N/A	N/A	N/A	N/A	0.203	N/A	0.18	N/A	0.214	N/A	N/A
	4/10/2014	< 0.02	N/A	0.0148*	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.02	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	< 0.02	0.0128*	< 0.02	0.0395	0.0144*	N/A	N/A	N/A	N/A
	10/31/2014	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.01	N/A	0.0104	< 0.01	0.0106	0.0117	< 0.05	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	0.00707*	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A
	10/6/2015	< 0.01	N/A	0.0147	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.0129	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.01	N/A	< 0.01	< 0.01	< 0.01	0.00788*	< 0.01	0.00599*	0.011	N/A	N/A
	4/14/2016	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.01	N/A	< 0.01	< 0.01	< 0.01	1.88	< 0.01	0.00669*	0.827	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.029	N/A	0.00529*	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.02	N/A	< 0.02	< 0.02	N/A	< 0.02	1.19	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.02	N/A	< 0.02	< 0.02	0.016*	N/A	< 0.02	< 0.02	N/A	N/A	N/A
	7/27/2017	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.02	0.0244	< 0.02	0.0149*	0.131	N/A	< 0.02	< 0.02	< 0.02	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A
	8/1/2018	< 0.02	< 0.02	< 0.02	0.0137*	0.0524	< 0.02	< 0.02	0.0203	< 0.02	N/A	N/A
	8/1/2018	N/A	N/A	N/A	0.0233	0.0464	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	< 0.02	< 0.02	< 0.02	0.012*	0.0129*	0.0465	< 0.02	0.0928	0.0102*	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.111	< 0.02	N/A	N/A
	10/3/2019	N/A	< 0.02	N/A	N/A	0.0188*	< 0.02	< 0.02	N/A	< 0.02	N/A	0.0146*
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	5/5/2020	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	0.219	< 0.02	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	9/29/2020	N/A	0.0117*	< 0.02	0.0173*	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	0.0251
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	3/30/2021	< 0.02	< 0.02	< 0.02	0.159	< 0.02	< 0.02	< 0.02	0.0292	< 0.02	N/A	0.0206
	3/30/2021	N/A	N/A	N/A	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02	0.0106*	< 0.02
	11/8/2021	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	8/23/2022	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	0.0139*
	5/25/2023	0.0111*	< 0.02	0.0235	< 0.02	0.00725*	< 0.02	< 0.02	0.0324	0.00648*	N/A	< 0.02
	5/25/2023	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Total Metals Constituents												
Zinc, mg/L (CAS NO - 7440-66-6)	9/26/2023	N/A	0.0267	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	0.0127*
	9/26/2023	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 0.02	N/A	N/A	N/A	< 0.02	0.0163*	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 0.02	< 0.02	0.0272	0.0577	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)												
	4/10/2014	11	N/A	870	102	76	183	720	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	73	N/A	137	N/A	N/A	N/A	N/A	N/A
	7/30/2014	N/A	N/A	N/A	N/A	N/A	254	N/A	N/A	N/A	N/A	N/A
	10/31/2014	12.8	N/A	55.5	288	526	1060	5230	N/A	N/A	N/A	N/A
	10/31/2014	10.4	N/A	N/A	N/A	618	N/A	N/A	N/A	N/A	N/A	N/A
	3/17/2015	N/A	N/A	N/A	N/A	N/A	218	N/A	N/A	N/A	N/A	N/A
	4/7/2015	N/A	N/A	N/A	N/A	N/A	4600	N/A	N/A	N/A	N/A	N/A
	4/27/2015	17.6	N/A	95	9.83	339	232	22900	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	29	N/A	N/A	N/A	18900	N/A	N/A	N/A	N/A
	10/6/2015	< 1.88	N/A	113	N/A	4.13	34.4	87.7	83.9	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	27.3	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	1.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	1.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	0.875*	N/A	11	9.87	19.4	62	1.13*	63.4	342	N/A	N/A
	4/14/2016	1*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1.88	N/A	7.62	11.3	16.1	77.6	1.25*	8.37	40.2	N/A	N/A
	10/4/2016	N/A	N/A	N/A	4.13	N/A	83.1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	3.5	N/A	29	7	N/A	428	55	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	31.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1.88	N/A	34.5	10.3	51.3	N/A	1.63*	19.7	N/A	N/A	N/A
	7/27/2017	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1.88	8.75	5	18.2	12.6	N/A	2.13	12.3	2.88	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	2	15.3	N/A	N/A	N/A
	8/1/2018	1.25*	29.3	17.3	51.8	73	14.5	1.25*	253	2.25	N/A	N/A
	8/1/2018	N/A	N/A	N/A	51.3	62	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	< 1.88	2.25	18	37.7	64.5	29.5	1.13*	11.1	6	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.4	3.63	N/A	N/A
	10/3/2019	N/A	< 1.88	N/A	N/A	115	4.63	0.75*	N/A	1.13*	N/A	53.5
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.75*	N/A	N/A	N/A	N/A
	5/5/2020	< 1.88	< 1.88	N/A	N/A	43.6	0.875*	< 1.88	N/A	3.67*	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	7/15/2020	N/A	N/A	N/A	N/A	14.9	N/A	N/A	N/A	N/A	N/A	N/A
	8/4/2020	N/A	N/A	N/A	N/A	3.75	N/A	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	22.5	12	88	80.3	8.63	< 1.88	N/A	5	N/A	11.3
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A
	3/30/2021	7	10	29.1	2220	1.75*	18.8	40.8	66.5	3.75	N/A	122
	3/30/2021	N/A	N/A	N/A	2450	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/11/2021	N/A	N/A	N/A	N/A	6.87	N/A	N/A	N/A	N/A	N/A	N/A
	8/31/2021	N/A	3.63	N/A	N/A	3	29.1	5	N/A	19	106	8
	11/8/2021	N/A	N/A	N/A	21.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	18.5	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 5	N/A	N/A	2.67*	< 1.88	5.67	N/A	N/A	N/A	11.6
	8/23/2022	N/A	1.25*	26.5	N/A	19.3	0.75*	27.6	N/A	69	N/A	110
	5/25/2023	< 1.88	1.13*	74	11.5	2	< 1.88	0.75*	659	2.75	N/A	1.5*
	5/25/2023	N/A	N/A	N/A	N/A	2.25	N/A	N/A	N/A	N/A	N/A	N/A
	8/30/2023	N/A	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A
	9/26/2023	N/A	72.8	N/A	N/A	1*	< 1.88	0.75*	N/A	1.5*	N/A	12.8
	9/26/2023	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	11.3	N/A	N/A	N/A	< 1.88	5.88	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	2.5	N/A	N/A	N/A	N/A
	11/12/2024	N/A	9	7	570	303	< 1.88	466	N/A	50.7	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	73.3	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	2/5/2008	N/A	N/A	N/A	N/A	< 0.33	N/A	< 0.33	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.33	N/A	< 0.33	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.33	N/A	< 0.33	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	2/5/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1
	3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1
	8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	5/25/2023	N/A	0.305*	N/A	N/A	N/A	0.229*	< 1	< 1	0.326*	< 1	N/A	< 1
5/25/2023	N/A	N/A	N/A	N/A	N/A	0.217*	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1
	3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 2	< 2	< 1	< 1	< 1	< 1	N/A	< 2	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	7/27/2017	<1	N/A	<1	<1	<1	N/A	<1	<1	N/A	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<1	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1
	8/31/2021	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	<1	<1
	3/11/2022	N/A	<1	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	<1
	8/23/2022	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1
	5/25/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1
	5/25/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1
	9/26/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
6/20/2024	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	2/5/2008	N/A	N/A	N/A	N/A	<0.19	N/A	<0.19	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	<0.19	N/A	<0.19	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	<0.19	N/A	<0.19	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A
	10/28/2010	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	4/5/2011	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/17/2012	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/17/2013	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/6/2015	<1	N/A	<1	N/A	<1	<1	<1	<1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	4/14/2016	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<1	N/A	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	0.481*	<1	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	0.467*	N/A	N/A
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	N/A	N/A
2/18/2019	N/A	<1	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
5/5/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
3/30/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	
8/31/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	<1	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	3/11/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1
	8/23/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	5/25/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	5/25/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/26/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A
	10/28/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	4/5/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/5/2011	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/5/2011	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/22/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/22/2013	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/17/2013	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	10/31/2014	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/6/2015	< 2	N/A	< 2	N/A	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	4/14/2016	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 2	N/A	< 2	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A	N/A
	7/27/2017	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A
8/1/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	
8/1/2018	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	
10/3/2019	N/A	< 2	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	< 2	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	
5/5/2020	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
8/31/2021	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	< 2	
3/11/2022	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	
8/23/2022	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
5/25/2023	N/A	0.629*	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.7	N/A	< 0.7	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.7	N/A	< 0.7	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.7	N/A	< 0.7	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	2/5/2008	N/A	N/A	N/A	N/A	< 0.86	N/A	< 0.86	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.86	N/A	< 0.86	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.86	N/A	< 0.86	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 0.86	N/A	< 0.86	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 0.86	N/A	< 0.86	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.86	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.86	< 0.86	N/A	N/A	N/A	N/A
	10/8/2009	< 0.498	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.498	< 0.498	N/A	N/A	N/A	N/A
	4/27/2010	< 0.498	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	< 0.498	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	10/28/2010	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	
	4/5/2011	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A
	10/5/2011	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A
	10/5/2011	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A
	10/17/2012	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A
	4/22/2013	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A
	4/22/2013	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A
	10/17/2013	N/A	N/A	< 0.12	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.12	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	N/A	N/A
	10/31/2014	< 0.12	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	10/6/2015	< 0.5	N/A	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	4/14/2016	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	< 0.5	N/A	N/A	N/A	N/A
	4/11/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	N/A
	7/27/2017	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A
	8/1/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
	10/3/2019	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A	< 1.2
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A	< 1.2
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2
	8/31/2021	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2
3/11/2022	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	N/A	N/A	< 1.2	
8/23/2022	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A	< 1.2	
5/25/2023	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1.2	N/A	N/A	N/A	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A	< 1.2	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1.2	N/A	N/A	N/A	N/A	< 1.2	< 1.2	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.25	N/A	< 0.25	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.25	N/A	< 0.25	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.25	N/A	< 0.25	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 0.25	N/A	< 0.25	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 0.25	N/A	< 0.25	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.255	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.255	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	< 0.255	N/A	N/A
	10/28/2010	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A
	4/5/2011	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A
	10/5/2011	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	10/5/2011	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A
	10/17/2012	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	4/22/2013	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	4/22/2013	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A
	10/17/2013	N/A	N/A	< 0.13	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	4/10/2014	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 0.13	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	N/A	
	10/31/2014	< 0.13	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	10/6/2015	< 0.13	N/A	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	4/14/2016	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 0.13	N/A	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A
	7/27/2017	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	N/A
	8/1/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	< 0.34	N/A	N/A
	10/3/2019	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A	< 0.34
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A	< 0.34
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34
	8/31/2021	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34
	3/11/2022	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	N/A	N/A	< 0.34
8/23/2022	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A	< 0.34	
5/25/2023	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 0.34	N/A	N/A	N/A	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A	< 0.34	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 0.34	N/A	N/A	N/A	N/A	< 0.34	< 0.34	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	2/5/2008	N/A	N/A	N/A	N/A	< 0.21	N/A	< 0.21	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.21	N/A	< 0.21	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.21	N/A	< 0.21	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/5/2011	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
4/11/2017	< 1	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	7/27/2017	<1	N/A	<1	<1	<1	N/A	<1	<1	N/A	N/A	N/A	
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A	
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	
	8/1/2018	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	N/A	N/A	
	2/18/2019	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	<1	N/A	
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1
	8/31/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	<1	<1
	3/11/2022	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	N/A	N/A	<1
	8/23/2022	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1
	5/25/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1
	5/25/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1
	9/26/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	<1	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
11/12/2024	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	2/5/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	10/8/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	4/27/2010	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A
	10/28/2010	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	4/5/2011	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/17/2012	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/17/2013	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<1	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/6/2015	<1	N/A	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<1	N/A	<1	<1	<1	1.41	<1	<1	<1	<1	N/A	N/A
	4/14/2016	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<1	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A
	4/11/2017	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<1	N/A	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A
2/18/2019	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	
8/31/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	<1	<1	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	3/11/2022	N/A	<1	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	<1	
	8/23/2022	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
	5/25/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	
	5/25/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	<1	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
	9/26/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	<1	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	11/12/2024	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	2/5/2008	N/A	N/A	N/A	N/A	<0.4	N/A	<0.4	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	<0.4	N/A	<0.4	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	<0.4	N/A	<0.4	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A
	10/28/2010	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	
	4/5/2011	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	
	10/5/2011	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	10/5/2011	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	4/17/2012	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	4/17/2012	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	
	10/17/2012	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	4/22/2013	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	4/22/2013	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/17/2013	<1	N/A	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
	10/17/2013	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	10/31/2014	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	10/6/2015	<1	N/A	<1	N/A	<1	<1	<1	<1	N/A	N/A	N/A	
	10/6/2015	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	4/14/2016	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	<1	N/A	<1	<1	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<1	N/A	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A
8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	
8/1/2018	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A	<1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	
8/31/2021	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	<1	<1	
3/11/2022	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	<1	
8/23/2022	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
5/25/2023	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A	<1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	<1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	2/5/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	< 0.16	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	< 0.16	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	< 0.16	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	0.267*	< 1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
2-Butanone, ug/L (CAS NO - 78-93-3)	2/5/2008	N/A	N/A	N/A	N/A	< 0.91	N/A	< 0.91	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.91	N/A	< 0.91	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.91	N/A	< 0.91	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
2-Butanone, ug/L (CAS NO - 78-93-3)	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	10/31/2014	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 10	N/A	1.33*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	1.18*	N/A	N/A	N/A
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 10	< 10	1.67*	< 10	< 10	N/A	< 10	< 10	1.6*	N/A	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/3/2019	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10
8/31/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	< 10	
3/11/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	
8/23/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
5/25/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
11/12/2024	N/A	3.96*	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
2-Hexanone, ug/L (CAS NO - 591-78-6)	2/5/2008	N/A	N/A	N/A	N/A	< 1.76	N/A	< 1.76	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 1.76	N/A	< 1.76	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 1.76	N/A	< 1.76	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
2-Hexanone, ug/L (CAS NO - 591-78-6)	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 10	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	10/3/2019	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10
	8/31/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	< 10
	3/11/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10
8/23/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
5/25/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	2/5/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
10/31/2014	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2017	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	7/27/2017	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/11/2018	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A	
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
	8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	10/3/2019	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	5/5/2020	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	9/29/2020	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	3/30/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
	8/31/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	< 10	
	3/11/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	
	8/23/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	5/25/2023	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
	5/25/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	9/26/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A		
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A		
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A		
Acetone, ug/L (CAS NO - 67-64-1)	2/5/2008	N/A	N/A	N/A	N/A	< 4.62	N/A	< 4.62	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 4.62	N/A	< 4.62	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 4.62	N/A	< 4.62	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	13.8	< 10	< 10	21.3	< 10	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	
	10/17/2012	N/A	N/A	17.4	< 10	< 10	34.5	< 10	N/A	< 10	N/A	N/A	
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/17/2013	2.64*	N/A	3*	2.41*	2.56*	3.71*	4.47*	N/A	3.25*	N/A	N/A	
	10/17/2013	N/A	N/A	3.31*	N/A	N/A	4.59*	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	< 10	N/A	< 10	< 10	< 10	9.44*	< 10	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 10	N/A	9.18*	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	3.3*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	3.9*	N/A	5.62*	3.29*	2.93*	< 10	< 10	3.46*	2.46*	N/A	N/A	
	4/14/2016	4.63*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/11/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/27/2017	2.27*	N/A	2.55*	3.5*	3.41*	N/A	3.63*	4.01*	N/A	N/A	N/A	
	7/27/2017	2.72*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/11/2018	< 10	3.57*	< 10	8.99*	2.82*	N/A	< 10	2.17*	7.17*	N/A	N/A	
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
8/1/2018	< 10	12.8	3.75*	7.52*	4.81*	7.36*	< 10	3.92*	9.78*	N/A	N/A		
8/1/2018	N/A	N/A	N/A	6.1*	3.15*	N/A	N/A	N/A	N/A	N/A	N/A		
2/18/2019	N/A	3.3*	4.87*	< 10	< 10	4.01*	N/A	4*	3.28*	N/A	N/A		
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.02*	N/A	N/A	N/A		
10/3/2019	N/A	< 10	N/A	N/A	3.99*	9.57*	< 10	N/A	3.42*	N/A	< 10		
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A		
5/5/2020	N/A	< 10	N/A	N/A	< 10	4.27*	< 10	3.25*	< 10	N/A	N/A		
5/5/2020	N/A	N/A	N/A	N/A	N/A	3.21*	N/A	N/A	N/A	N/A	N/A		
9/29/2020	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10		
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A		
3/30/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10		
8/31/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10		

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Appendix I VOC Constituents	3/11/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	
	8/23/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	5/25/2023	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
	5/25/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	27.5	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
	9/26/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	11/12/2024	N/A	21.5	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
Acrylonitrile, ug/L (CAS NO - 107-13-1)	2/5/2008	N/A	N/A	N/A	N/A	< 1.28	N/A	< 1.28	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 1.28	N/A	< 1.28	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 1.28	N/A	< 1.28	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/17/2012	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	< 10	N/A	
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	< 10	N/A	< 10	1.45*	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 10	N/A	0.999*	1.59*	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/4/2016	N/A	N/A	N/A	1.45*	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 10	N/A	< 10	1.54*	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.841*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	< 10	1.28*	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 10	< 10	< 10	1.11*	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/3/2019	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	< 10	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
8/31/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	5.17*	< 10	
3/11/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	
8/23/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
5/25/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Benzene, ug/L (CAS NO - 71-43-2)	2/5/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	< 0.16	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	0.229	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.16	N/A	< 0.16	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	< 0.5	N/A	N/A
	10/28/2010	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	4/5/2011	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	10/5/2011	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	10/5/2011	N/A	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	10/17/2012	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	4/22/2013	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A
	4/22/2013	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.22*	N/A	0.145*	N/A	N/A
	10/17/2013	N/A	N/A	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	10/31/2014	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.139*	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	0.27*	N/A	N/A	N/A	N/A
	10/6/2015	< 0.5	N/A	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/14/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.478*	< 0.5	N/A	N/A	
4/14/2016	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.06	< 0.5	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 0.5	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/27/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	0.901	N/A	N/A	N/A	
7/27/2017	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	0.146*	< 0.5	N/A	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	0.158*	N/A	N/A	N/A	
8/1/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	0.524	< 0.5	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.568	N/A	N/A	N/A	
10/3/2019	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	< 0.5	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	1.22	< 0.5	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	< 0.5	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	0.398*	< 0.5	N/A	< 0.5	
8/31/2021	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	
3/11/2022	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	
8/23/2022	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	< 0.5	
5/25/2023	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	0.553	< 0.5	N/A	< 0.5	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	< 0.5	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 0.5	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	
Bromochloromethane, ug/L (CAS NO - 74-97-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.76	N/A	< 0.76	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.76	N/A	< 0.76	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.76	N/A	< 0.76	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Bromochloromethane, ug/L (CAS NO - 74-97-5)	10/28/2010	<5	N/A	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	
	4/5/2011	<5	N/A	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A
	10/5/2011	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	10/5/2011	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A
	10/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/22/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/22/2013	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	10/17/2013	N/A	N/A	<5	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/6/2015	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	4/14/2016	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A
	4/11/2017	<5	N/A	<5	<5	<5	N/A	<5	<5	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<5	N/A	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A	N/A
	7/27/2017	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A
	8/1/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	8/1/2018	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	10/3/2019	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	5/5/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	N/A
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
3/30/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	<5	
8/31/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	<5	<5	
3/11/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	N/A	N/A	<5	
8/23/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5	
5/25/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	<5	
5/25/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5	
9/26/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
11/12/2024	N/A	<5	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	2/5/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	<0.2	N/A	<0.2	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	<5	N/A	N/A
	10/28/2010	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	4/5/2011	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/17/2012	N/A	N/A	<2	<2	<1	<1	<1	<1	N/A	<2	N/A	N/A
	4/22/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/17/2013	N/A	N/A	<1	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	4/10/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	10/31/2014	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<1	N/A	<1	<1	<1	<1	<1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/6/2015	<1	N/A	<1	N/A	<1	<1	<1	<1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	4/14/2016	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<1	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	<1	N/A	<1	<1	N/A	<1	<1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<1	N/A	<1	<1	<1	<1	N/A	<1	<1	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A
	8/1/2018	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	<1	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/3/2019	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	5/5/2020	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	3/30/2021	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A
	8/31/2021	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	<1
3/11/2022	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	
8/23/2022	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	
5/25/2023	N/A	<1	N/A	N/A	N/A	<1	<1	<1	<1	<1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	<1	N/A	N/A	N/A	<1	<1	<1	N/A	<1	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	<1	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
11/12/2024	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
Bromoform, ug/L (CAS NO - 75-25-2)	2/5/2008	N/A	N/A	N/A	N/A	<0.43	N/A	<0.43	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	<0.43	N/A	<0.43	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	<0.43	N/A	<0.43	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	2/24/2009	<5	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/8/2009	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	4/27/2010	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	<5	N/A
	10/28/2010	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A
	4/5/2011	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A
	10/5/2011	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	10/5/2011	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/17/2012	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	<5	N/A
	10/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/22/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/22/2013	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<5	N/A	<5	<5	<5	<5	0.24*	<5	N/A	<5	N/A
	10/17/2013	N/A	N/A	<5	N/A	N/A	N/A	0.162*	N/A	N/A	N/A	N/A
	4/10/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A
10/31/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	
10/31/2014	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	
4/27/2015	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	
4/27/2015	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	
10/6/2015	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	
4/14/2016	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	
10/4/2016	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	
4/11/2017	<5	N/A	<5	<5	<5	N/A	<5	<5	N/A	N/A	N/A	
4/11/2017	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	7/27/2017	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A	N/A	N/A
	7/27/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A
	8/1/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	10/3/2019	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	5/5/2020	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	3/30/2021	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/31/2021	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	3/11/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	8/23/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	5/25/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/25/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	9/26/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 5	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
11/12/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	
Bromomethane, ug/L (CAS NO - 74-83-9)	2/5/2008	N/A	N/A	N/A	N/A	< 0.48	N/A	< 0.48	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.48	N/A	< 0.48	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.48	N/A	< 0.48	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	< 4	N/A
	10/28/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	10/5/2011	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/5/2011	N/A	N/A	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	4/17/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	10/17/2012	N/A	N/A	< 5	< 5	< 4	< 4	< 4	< 4	N/A	< 5	N/A
	4/22/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	4/22/2013	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/17/2013	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/31/2014	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A
	10/6/2015	< 4	N/A	< 4	N/A	< 4	< 4	< 4	< 4	0.422*	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/14/2016	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	0.308*	N/A
	10/4/2016	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.265*	N/A	< 4	< 4	< 4	N/A	0.271*	< 4	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	0.308*	N/A	N/A
	7/27/2017	0.335*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A
8/1/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	
8/1/2018	N/A	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	
10/3/2019	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	< 4	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	
5/5/2020	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	
3/30/2021	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	

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 Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Appendix I VOC Constituents												
	Bromomethane, ug/L (CAS NO - 74-83-9)	8/31/2021	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	< 4
		3/11/2022	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	< 4
		8/23/2022	N/A	< 4	N/A	N/A	< 4	< 4	2.09*	N/A	< 4	3.3*
		5/25/2023	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A
		5/25/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
		9/26/2023	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A
		9/26/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
		6/20/2024	N/A	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A
		6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
		11/12/2024	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	2/5/2008	N/A	N/A	N/A	N/A	< 0.18	N/A	< 0.18	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.18	N/A	< 0.18	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.18	N/A	< 0.18	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	0.15*	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	1.21	2.19	0.319*	< 1	< 1	0.162*	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	0.164*	N/A	0.778*	0.397*	0.152*	< 1	< 1	0.249*	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.383*	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	0.193*	N/A	14.5	14.1	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	4.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	0.193*	N/A	0.253*	0.355*	0.216*	N/A	0.158*	0.206*	N/A	N/A	N/A
	7/27/2017	0.184*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	0.153*	< 1	N/A	< 1	< 1	< 1	N/A	N/A
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	
8/1/2018	< 1	1.44	< 1	< 1	< 1	< 1	< 1	< 1	0.649*	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.919*	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	< 1	0.619*	< 1	N/A	0.709*	N/A	< 1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	0.623*	N/A	< 1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
3/30/2021	N/A	0.764*	N/A	N/A	< 1	0.561*	< 1	< 1	< 1	N/A	0.72*	
8/31/2021	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	1.93	< 1	
3/11/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	0.986*	
8/23/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	0.956*	N/A	0.756*	
5/25/2023	N/A	0.718*	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	0.522*	
5/25/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	1.19	< 1	1.32	0.451*	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/8/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	< 4	N/A
	10/28/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	10/5/2011	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	10/5/2011	N/A	N/A	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	4/17/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	10/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	4/22/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	4/22/2013	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	10/17/2013	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/31/2014	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/6/2015	< 2	N/A	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/14/2016	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	10/4/2016	N/A	N/A	N/A	< 2	N/A	< 2	N/A	< 2	N/A	N/A	N/A
	4/11/2017	< 2	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A	N/A	N/A
4/11/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7/27/2017	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A	N/A	
7/27/2017	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/11/2018	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	
8/1/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	
8/1/2018	N/A	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	
10/3/2019	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	
5/5/2020	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	
3/30/2021	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
8/31/2021	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	< 2	
3/11/2022	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	
8/23/2022	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
5/25/2023	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 2	N/A	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	
11/12/2024	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	
Chlorobenzene, ug/L (CAS NO - 108-90-7)	2/5/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Chlorobenzene, ug/L (CAS NO - 108-90-7)	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.56*	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1.78	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	0.245*	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	0.314*	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.788*	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.561*	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	2.14	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	0.728*	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	2/5/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/28/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/5/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	10/5/2011	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	10/5/2011	N/A	N/A	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	10/17/2012	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	4/22/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	4/22/2013	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	10/17/2013	N/A	N/A	< 5	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	4/10/2014	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<5	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/6/2015	<5	N/A	<5	N/A	<5	<5	<5	<5	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A
	4/14/2016	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A
	10/4/2016	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A
	4/11/2017	<5	N/A	<5	<5	N/A	<5	<5	<5	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<5	N/A	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A
	7/27/2017	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A
	8/1/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A
	8/1/2018	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	<5	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A
	10/3/2019	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	5/5/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	3/30/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A
	8/31/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	<5
3/11/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	N/A	N/A	
8/23/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	
5/25/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	<5	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	
11/12/2024	N/A	<5	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	
Chloroethane, ug/L (CAS NO - 75-00-3)	2/5/2008	N/A	N/A	N/A	N/A	<0.5	N/A	<0.5	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	<0.5	N/A	<0.5	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	<0.5	N/A	<0.5	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	<4	N/A	<4	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	<4	N/A	<4	<4	<4	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	10/8/2009	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	4/27/2010	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	<4	N/A
	10/28/2010	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	10/28/2010	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A
	4/5/2011	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<4	N/A
	10/5/2011	N/A	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	10/5/2011	N/A	N/A	<4	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	4/17/2012	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	<4	N/A
	10/17/2012	N/A	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	4/22/2013	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	4/22/2013	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	<4	N/A
	10/17/2013	N/A	N/A	<4	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A
	4/10/2014	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<4	N/A	<4	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	10/31/2014	<4	N/A	N/A	N/A	<4	<4	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<4	N/A	<4	<4	<4	<4	<4	<4	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<4	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A
	10/6/2015	<4	N/A	<4	N/A	<4	<4	<4	<4	<4	N/A	N/A
10/6/2015	N/A	N/A	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	<4	N/A	<4	<4	<4	<4	<4	<4	<4	<4	N/A	
4/14/2016	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	<4	N/A	<4	<4	<4	<4	<4	<4	2.05*	<4	N/A	
10/4/2016	N/A	N/A	N/A	<4	N/A	<4	N/A	<4	N/A	N/A	N/A	
4/11/2017	<4	N/A	<4	<4	<4	N/A	<4	<4	N/A	N/A	N/A	
4/11/2017	N/A	N/A	0.955*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	7/27/2017	< 4	N/A	< 4	< 4	< 4	N/A	< 4	2.49*	N/A	N/A	N/A
	7/27/2017	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 4	< 4	< 4	< 4	< 4	N/A	< 4	0.44*	< 4	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 4	0.345*	N/A	N/A	N/A
	8/1/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/3/2019	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4
	8/31/2021	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	< 4	< 4
	3/11/2022	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4
	8/23/2022	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	5/25/2023	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4
	5/25/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 4	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	9/26/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
6/20/2024	N/A	< 4	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	
Chloroform, ug/L (CAS NO - 67-66-3)	2/5/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.17	N/A	< 0.17	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 2	< 2	< 1	< 1	< 1	N/A	< 2	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
8/1/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	
10/3/2019	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
5/5/2020	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
3/30/2021	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Appendix I VOC Constituents Chloroform, ug/L (CAS NO - 67-66-3)	8/31/2021	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	< 3	< 3
	3/11/2022	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	< 3
	8/23/2022	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3
	5/25/2023	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3
	5/25/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3
	9/26/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	11/12/2024	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
Chloromethane, ug/L (CAS NO - 74-87-3)	2/5/2008	N/A	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.2	N/A	< 0.2	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	5.11	N/A	N/A	< 3	N/A
	10/28/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	4/5/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	10/5/2011	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/5/2011	N/A	N/A	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	4/17/2012	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	10/17/2012	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	4/22/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	4/22/2013	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/17/2013	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	10/31/2014	< 3	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 3	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/6/2015	0.335*	N/A	< 3	N/A	< 3	< 3	< 3	< 3	0.348*	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	1.07*	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.49*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/14/2016	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	10/4/2016	N/A	N/A	N/A	< 3	N/A	< 3	N/A	< 3	N/A	N/A	N/A
	4/11/2017	< 3	N/A	< 3	< 3	< 3	N/A	< 3	< 3	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A	N/A
	7/27/2017	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A
8/1/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	
8/1/2018	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A	2.04*	< 3	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	
10/3/2019	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
5/5/2020	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	8.77	< 3	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
3/30/2021	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	
8/31/2021	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	< 3	
3/11/2022	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	
8/23/2022	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	
5/25/2023	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 3	N/A	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
11/12/2024	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	2/5/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.37	N/A	< 0.37	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	3.29	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1.06	< 1	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1.45	< 1	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	1.62	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	4.62	< 1	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	4.27	N/A	N/A	
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.86	< 1	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	0.408*	< 1	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	1.48	< 1	N/A	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	0.387*	< 1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	10/8/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	10/28/2010	<5	N/A	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	
	4/5/2011	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A
	10/5/2011	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	10/5/2011	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A
	10/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/22/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	4/22/2013	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A
	10/17/2013	N/A	N/A	<5	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<5	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/6/2015	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	4/14/2016	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	10/4/2016	N/A	N/A	N/A	<5	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A
	4/11/2017	<5	N/A	<5	<5	<5	N/A	<5	<5	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<5	N/A	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A	N/A
	7/27/2017	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A
	8/1/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	N/A
	8/1/2018	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	10/3/2019	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	5/5/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
3/30/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	<5	
8/31/2021	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	<5	<5	
3/11/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	N/A	N/A	<5	
8/23/2022	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5	
5/25/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	<5	<5	N/A	<5	
5/25/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	<5	N/A	<5	
9/26/2023	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	<5	N/A	N/A	N/A	<5	<5	<5	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
11/12/2024	N/A	<5	<5	<5	<5	<5	<5	<5	N/A	<5	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
Ethylbenzene, ug/L (CAS NO - 100-41-4)	2/5/2008	N/A	N/A	N/A	N/A	<0.25	N/A	<0.25	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	<0.25	N/A	<0.25	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	<0.25	N/A	<0.25	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	<1	N/A	<1	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	<1	N/A	N/A
	10/28/2010	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	4/5/2011	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/5/2011	N/A	N/A	<1	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/17/2012	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	4/22/2013	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<1	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	N/A
	10/17/2013	N/A	N/A	<1	N/A	N/A	<1	N/A	<1	N/A	N/A	N/A	N/A

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	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Appendix I VOC Constituents Ethylbenzene, ug/L (CAS NO - 100-41-4)	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
Iodomethane, ug/L (CAS NO - 74-88-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.4	N/A	< 0.4	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 10	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 20	N/A	< 20	< 20	< 20	< 20	< 20	< 20	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	< 50	N/A
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2011	< 50	N/A	< 50	< 50	< 50	< 50	< 50	< 50	N/A	< 50	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A
	10/5/2011	N/A	N/A	< 20	< 20	< 20	< 20	< 20	< 20	N/A	< 20	N/A
	10/5/2011	N/A	N/A	< 20	N/A	N/A	N/A	< 20	< 20	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/31/2014	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	
4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	
10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
4/11/2017	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Iodomethane, ug/L (CAS NO - 74-88-4)	7/27/2017	< 10	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/11/2018	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A	
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
	8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	10/3/2019	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10
	8/31/2021	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10
	3/11/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10
	8/23/2022	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	5/25/2023	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10
	5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10	N/A	< 10
	9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
Methylene Bromide, ug/L (CAS NO - 74-95-3)	2/5/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Methylene Bromide, ug/L (CAS NO - 74-95-3)	3/11/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	
	8/23/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
	5/25/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
	5/25/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
	9/26/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	2/5/2008	N/A	N/A	N/A	N/A	0.96	N/A	< 0.45	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.45	N/A	< 0.45	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.45	N/A	< 0.45	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A
	10/28/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	
	4/5/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	
	10/5/2011	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	10/5/2011	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	4/17/2012	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	4/17/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	< 5	N/A	N/A	
	10/17/2012	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	4/22/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	4/22/2013	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/17/2013	< 5	N/A	0.171*	0.175*	< 5	< 5	< 5	N/A	< 5	N/A	N/A	
	10/17/2013	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	< 5	N/A	< 5	< 5	0.698*	< 5	0.849*	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	
	10/31/2014	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	
	10/6/2015	0.405*	N/A	0.497*	N/A	0.472*	< 5	< 5	0.73*	N/A	N/A	N/A	
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	
	4/14/2016	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/4/2016	0.278*	N/A	0.288*	0.303*	0.329*	0.24*	0.327*	0.19*	0.318*	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	0.332*	N/A	0.461*	N/A	N/A	N/A	N/A	N/A	
	4/11/2017	0.442*	N/A	< 5	< 5	N/A	0.41*	< 5	N/A	N/A	N/A	N/A	
	4/11/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7/27/2017	< 5	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A	N/A	N/A	
	7/27/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/11/2018	< 5	< 5	< 5	< 5	< 5	N/A	< 5	0.56*	0.204*	N/A	N/A	
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	0.513*	N/A	N/A	N/A	
8/1/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A		
8/1/2018	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A		
2/18/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5	N/A		
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A		
10/3/2019	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5		
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A		
5/5/2020	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A		
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A		
9/29/2020	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5		
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A		
3/30/2021	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5		
8/31/2021	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	< 5	< 5		
3/11/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5		
8/23/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5		
5/25/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5		
5/25/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A		
9/26/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5		
9/26/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A		
6/20/2024	N/A	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A		
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A		
11/12/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A		
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A		

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Styrene, ug/L (CAS NO - 100-42-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.19	N/A	< 0.19	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	0.207*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	0.258*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.263*	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	0.24*	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	0.159*	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.38	N/A	< 0.38	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.38	N/A	< 0.38	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.38	N/A	< 0.38	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	0.436*	N/A	0.269*	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.201*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.255*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	0.231*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	0.181*	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	0.22*	< 1	N/A	< 1	< 1	< 1	0.233*	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
Toluene, ug/L (CAS NO - 108-88-3)	2/5/2008	N/A	N/A	N/A	N/A	< 0.14	N/A	< 0.14	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.14	N/A	0.185	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.14	N/A	< 0.14	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	0.281*	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Toluene, ug/L (CAS NO - 108-88-3)	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	0.208*	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.725*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	0.607*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	0.225*	0.519*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	0.356*	< 1	< 1	< 1	< 1	0.152*	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	0.42*	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	0.216*	0.231*	N/A	0.223*	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	0.167*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	0.605*	0.162*	< 1	N/A	< 1	< 1	< 1	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	0.387*	< 1	< 1	< 1	N/A	< 1	< 1	< 1	0.511*	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1
	3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	2/5/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 0.31	N/A	< 0.31	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	
4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	7/27/2017	<1	N/A	<1	<1	<1	N/A	<1	<1	N/A	N/A	N/A
	7/27/2017	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A
	8/1/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A
	8/1/2018	N/A	N/A	N/A	<1	<1	<1	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	<1	<1	<1	<1	<1	<1	N/A	<1	<1	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/3/2019	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	5/5/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	9/29/2020	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
	3/30/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A
	8/31/2021	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	<1
	3/11/2022	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	N/A	N/A
	8/23/2022	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A
	5/25/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	<1	<1	N/A
	5/25/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	<1	N/A	N/A	<1	<1	<1	<1	N/A	<1	N/A
	9/26/2023	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	<1	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A
11/12/2024	N/A	<1	<1	<1	<1	<1	<1	<1	N/A	<1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	2/5/2008	N/A	N/A	N/A	N/A	<0.17	N/A	<0.17	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	<0.17	N/A	<0.17	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	<0.17	N/A	<0.17	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	<5	N/A	<5	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	<5	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	10/8/2009	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	4/27/2010	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	<5	N/A
	10/28/2010	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	10/28/2010	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A
	4/5/2011	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<10	N/A
	10/5/2011	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	10/5/2011	N/A	N/A	<5	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A
	4/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/17/2012	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	<5	N/A
	10/17/2012	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/22/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	4/22/2013	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	N/A
	10/17/2013	N/A	N/A	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A
	4/10/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	<5	N/A	<5	<5	N/A	N/A	N/A	N/A
	10/31/2014	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	10/31/2014	<5	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A
	4/27/2015	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/27/2015	N/A	N/A	<5	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A
	10/6/2015	<5	N/A	<5	N/A	<5	<5	<5	<5	<5	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A
	4/14/2016	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	<5	N/A	<5	<5	<5	<5	<5	<5	<5	<5	N/A
	10/4/2016	N/A	N/A	N/A	<5	N/A	<5	<5	N/A	N/A	N/A	N/A
	4/11/2017	<5	N/A	<5	<5	<5	<5	<5	<5	N/A	N/A	N/A
	4/11/2017	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	<5	N/A	<5	<5	<5	<5	N/A	<5	<5	N/A	N/A
	7/27/2017	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	<5	<5	<5	<5	<5	<5	N/A	<5	<5	<5	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	N/A	N/A
8/1/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	N/A	
8/1/2018	N/A	N/A	N/A	<5	<5	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	<5	<5	<5	<5	<5	<5	N/A	<5	<5	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	
10/3/2019	N/A	<5	N/A	N/A	<5	<5	<5	<5	N/A	<5	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	
5/5/2020	N/A	<5	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	N/A	
9/29/2020	N/A	<5	N/A	N/A	<5	<5	<5	<5	N/A	<5	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A	N/A	N/A	
3/30/2021	N/A	<5	N/A	N/A	<5	<5	<5	<5	<5	<5	N/A	
8/31/2021	N/A	<5	N/A	N/A	<5	<5	<5	<5	N/A	<5	<5	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	3/11/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	
	8/23/2022	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5	
	5/25/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	< 5	
	5/25/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	< 5	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	< 5	
	9/26/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	2/5/2008	N/A	N/A	N/A	N/A	< 1.8	N/A	< 1.8	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 1.8	N/A	< 1.8	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 1.8	N/A	< 1.8	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/15/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/8/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/27/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A
	10/28/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	4/5/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	10/5/2011	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/5/2011	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	4/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/17/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	10/17/2012	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/22/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	4/22/2013	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/17/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
	10/17/2013	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	10/31/2014	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	N/A	
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 10	N/A	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	N/A
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/3/2019	N/A	< 10	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A	< 10	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
8/31/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10	< 10	
3/11/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	
8/23/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
5/25/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	< 10	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	< 10	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	2/5/2008	N/A	N/A	N/A	N/A	< 0.24	N/A	< 0.24	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.24	N/A	< 0.24	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.24	N/A	< 0.24	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/31/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/11/2018	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	N/A	
4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	
8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	
8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	
10/3/2019	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
5/5/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
3/30/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
8/31/2021	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
3/11/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	< 1	
8/23/2022	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
5/25/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 1	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	< 4	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	10/28/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A	
	10/28/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	
	4/5/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	10/5/2011	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	10/5/2011	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	10/17/2012	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/22/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	4/22/2013	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A
	10/17/2013	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	10/31/2014	< 4	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	10/6/2015	< 4	N/A	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	4/14/2016	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/4/2016	N/A	N/A	N/A	< 4	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A
	4/11/2017	< 4	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A	N/A	N/A
	7/27/2017	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A
	8/1/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/3/2019	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	5/5/2020	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
3/30/2021	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	
8/31/2021	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	< 4	< 4	
3/11/2022	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	
8/23/2022	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4	
5/25/2023	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	< 4	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 4	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	< 4	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 4	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
11/12/2024	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	2/5/2008	N/A	N/A	N/A	N/A	< 1.36	N/A	< 1.36	N/A	N/A	N/A	N/A	
	4/22/2008	N/A	N/A	N/A	N/A	< 1.36	N/A	< 1.36	N/A	N/A	N/A	N/A	
	7/15/2008	N/A	N/A	N/A	N/A	< 1.36	N/A	< 1.36	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	
	12/24/2008	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	
	1/20/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	
	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A
	10/28/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	4/5/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/5/2011	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	10/5/2011	N/A	N/A	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/17/2012	N/A	N/A	< 2	< 2	< 10	< 10	< 10	< 10	N/A	< 2	N/A	N/A
	4/22/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A
4/22/2013	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/17/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A	
10/17/2013	N/A	N/A	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	4/10/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/31/2014	< 10	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2015	< 10	N/A	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/14/2016	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	10/4/2016	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 10	N/A	< 10	< 10	N/A	< 10	< 10	< 10	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A	N/A
	7/27/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	8/1/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/1/2018	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/3/2019	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	5/5/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	3/30/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	8/31/2021	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	< 10
3/11/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	
8/23/2022	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	
5/25/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	
5/25/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
9/26/2023	N/A	< 10	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	
9/26/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
6/20/2024	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	
6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
11/12/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	2/5/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.26	N/A	< 0.26	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/8/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/27/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A
	10/28/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/28/2010	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/5/2011	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/17/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/17/2013	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A
10/31/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
10/31/2014	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
4/27/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	
4/27/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
10/6/2015	< 1	N/A	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	
10/6/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	
10/21/2015	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/14/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	
4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10/4/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	
10/4/2016	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	
4/11/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A	N/A	
4/11/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Appendix I VOC Constituents Vinyl Chloride, ug/L (CAS NO - 75-01-4)	7/27/2017	< 1	N/A	< 1	< 1	< 1	N/A	< 1	0.253*	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 1	< 1	< 1	< 1	< 1	N/A	< 1	0.121*	< 1	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	0.116*	N/A	N/A	N/A
	8/1/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/18/2019	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1	N/A	N/A
	2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/3/2019	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	5/5/2020	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/5/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2020	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/30/2021	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	8/31/2021	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	< 1
	3/11/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1
	8/23/2022	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	5/25/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1
	5/25/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 1	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	< 1
	9/26/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/20/2024	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
11/12/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	
Xylenes, total, ug/L (CAS NO - 1330-20-7)	2/5/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A
	4/22/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A
	7/15/2008	N/A	N/A	N/A	N/A	< 0.3	N/A	< 0.3	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	10/17/2008	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	12/24/2008	N/A	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A
	1/20/2009	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	2/24/2009	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/8/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	10/8/2009	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/27/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/27/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	6/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	< 3	N/A
	10/28/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	10/28/2010	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	1/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	4/5/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	4/5/2011	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	6/17/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	10/5/2011	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	10/5/2011	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	4/17/2012	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	4/17/2012	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	10/17/2012	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	4/22/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	4/22/2013	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/17/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
	10/17/2013	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/10/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/31/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	10/31/2014	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	10/6/2015	< 3	N/A	< 3	N/A	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	10/6/2015	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2015	N/A	N/A	N/A	0.43*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/14/2016	< 3	N/A	0.206*	0.464*	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	4/14/2016	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 3	N/A	< 3	0.264*	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/4/2016	N/A	N/A	N/A	0.315*	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 3	N/A	< 3	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A
	4/11/2017	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2017	< 3	N/A	0.537*	0.146*	< 3	N/A	< 3	< 3	N/A	N/A	N/A
	7/27/2017	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/11/2018	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A
8/1/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	
8/1/2018	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	
2/18/2019	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3	N/A	N/A	
2/18/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	
10/3/2019	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
10/3/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	
5/5/2020	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	
5/5/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	
9/29/2020	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
9/29/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	
3/30/2021	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	

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Summary of Groundwater Chemistry
 Harrison County Sanitary Landfill - 43-SDP-05-94P

Appendix I VOC Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Xylenes, total, ug/L (CAS NO - 1330-20-7)	8/31/2021	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	< 3	< 3	
	3/11/2022	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	< 3	
	8/23/2022	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
	5/25/2023	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	< 3	
	5/25/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	
	9/26/2023	N/A	< 3	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	< 3	
	9/26/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	
	6/20/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	11/12/2024	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A	N/A
11/12/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	
M&P-Xylene, ug/L (CAS NO - 179601-23-1)	10/17/2012	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A	
	4/22/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A	N/A	
	4/22/2013	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
O-Xylene, ug/L (CAS NO - 95-47-6)	10/17/2012	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
	4/22/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A	N/A	
	4/22/2013	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/18/2019	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	2/18/2019	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/18/2019	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/18/2019	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	2/24/2009	< 4	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 4	< 4	< 4	N/A	< 4	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
2/18/2019		N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	2/24/2009	< 0.2	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 1.08	N/A	< 1.1	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 1.25	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 1.16	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 1.04	< 1.03	< 1.13	N/A	< 1.12	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A
2/18/2019		N/A	N/A	< 1.05	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 1.01	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)		2/24/2009	< 0.2	N/A	< 0.2	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1.08	N/A	< 1.1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1.25	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1.16	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.704*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1.04	< 1.03	< 1.13	N/A	< 1.12	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A
	2/18/2019	N/A	N/A	< 1.05	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.08	N/A	N/A	N/A
	3/11/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.343	N/A	N/A	N/A
	8/23/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	5/25/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.75	N/A	N/A
	11/12/2024	N/A	N/A	< 1.01	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)		2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1.08	N/A	< 1.1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1.25	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1.16	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1.04	< 1.03	< 1.13	N/A	< 1.12	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.04	N/A	N/A
	2/18/2019	N/A	N/A	< 1.05	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1.01	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
3-Chloropropene, ug/L (CAS NO - 107-05-1)	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/18/2019	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD, ug/L (CAS NO - 72-54-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0262*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	0.00225*	< 0.0333	< 0.0344	N/A	0.00346*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00299*	N/A	N/A
	2/18/2019	N/A	N/A	0.00482*	0.00203*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0245*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE, ug/L (CAS NO - 72-55-9)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0156*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	0.0043*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT, ug/L (CAS NO - 50-29-3)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	0.0111*	N/A	0.00917*	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	0.00456*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	2/24/2009	< 20	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Acenaphthylene, ug/L (CAS NO - 208-96-8)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	2/24/2009	< 10000	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	1120*	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10000	< 10000	< 10000	N/A	< 10000	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A
	2/18/2019	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.35*	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acrolein, ug/L (CAS NO - 107-02-8)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	< 0.0337	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	0.00562*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0315*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00622*	N/A	N/A
	2/18/2019	N/A	N/A	0.00593*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00593*	N/A	N/A
	2/18/2019	N/A	N/A	0.00571*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.013*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00969*	N/A	N/A
	2/18/2019	N/A	N/A	0.00427*	0.0153*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.015*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	5.35*	N/A	3.74*	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	8.13*	4.58*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	4.83*	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.869*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	0.55*	0.912*	0.996*	N/A	0.592*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 2.15	N/A	< 2.13	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11.1	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 2	< 2.08	< 2.15	N/A	< 2.2	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A
	2/18/2019	N/A	N/A	< 2.11	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1.83	< 1.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/18/2019	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	2/24/2009	< 0.01	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Cyanide, mg/L (CAS NO - 57-12-5)	10/4/2016	N/A	N/A	N/A	N/A	< 0.01	< 0.01	< 0.01	N/A	< 0.01	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A
	2/18/2019	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	2/24/2009	< 3	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.355*	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 3	< 3	< 3	N/A	< 3	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
2/18/2019		N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)		2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	0.00253*	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0276*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00551*	N/A	N/A
	2/18/2019	N/A	N/A	0.00463*	0.00368*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Diethyl phthalate, ug/L (CAS NO - 84-66-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.632*	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	0.595*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.45*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	15.9	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 20.4	N/A	< 21.1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 22	< 20.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 102	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 20.6	1.92*	< 23.8	N/A	1.71*	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/18/2019	N/A	N/A	< 21.1	< 42.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	2/24/2009	< 70	N/A	< 70	< 70	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00497*	N/A	N/A
	2/18/2019	N/A	N/A	0.00435*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0261*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00423*	N/A	N/A
	2/18/2019	N/A	N/A	0.00271*	0.00416*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	0.00337*	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00827*	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00376*	N/A	N/A
	2/18/2019	N/A	N/A	0.00376*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0128*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00763*	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00299*	N/A	N/A
	2/18/2019	N/A	N/A	0.00448*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.01*	N/A	N/A
	2/18/2019	N/A	N/A	< 0.0337	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/18/2019	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	2/24/2009	< 20	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 20.4	N/A	< 21.1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 22	< 20.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 102	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 20.6	< 21.1	< 23.8	N/A	< 21.7	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	0.00984*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0674	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG	
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A	
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	
	2/18/2019	N/A	N/A	< 0.0337	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A	
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 20.4	N/A	< 21.1	N/A	N/A	N/A	N/A	
10/31/2014		N/A	N/A	< 22	< 20.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 102	N/A	N/A	N/A	N/A	N/A	
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	
10/4/2016		N/A	N/A	N/A	N/A	< 20.6	< 21.1	< 23.8	N/A	< 21.7	N/A	N/A	
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Hexachloroethane, ug/L (CAS NO - 67-72-1)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Hexachloropropene, ug/L (CAS NO - 1888-71-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A	
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A	
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A	
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Isobutanol, mg/L (CAS NO - 78-83-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	
10/31/2014		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
10/4/2016		N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	
2/18/2019		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Isodrin, ug/L (CAS NO - 465-73-6)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A	
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A	
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Isodrin, ug/L (CAS NO - 465-73-6)	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	2/24/2009	< 1	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	2/24/2009	< 0.032	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.034	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.178	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.032	< 0.0333	< 0.0344	N/A	< 0.0352	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/18/2019	N/A	N/A	0.00371*	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0235*	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 0.0916	< 0.0907	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/18/2019	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	2/24/2009	< 30	N/A	< 30	< 30	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PCB-1016, ug/L (CAS NO - 12674-11-2)	2/24/2009	< 0.8	N/A	< 0.8	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 0.514	N/A	< 0.534	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 0.879	< 0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 0.842	< 0.825	< 0.93	N/A	< 0.87	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
2/18/2019		N/A	N/A	< 0.851	< 0.851	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A
11/12/2024		N/A	N/A	< 1.83	< 1.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)		2/24/2009	< 0.8	N/A	< 0.8	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 0.514	N/A	< 0.534	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 0.879	< 0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 0.842	< 0.825	< 0.93	N/A	< 0.87	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	2/18/2019	N/A	N/A	< 0.851	< 0.851	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A
	11/12/2024	N/A	N/A	< 1.83	< 1.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PCB-1232, ug/L (CAS NO - 11141-16-5)	2/24/2009	< 0.8	N/A	< 0.8	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 0.514	N/A	< 0.534	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 0.879	< 0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 0.808	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 0.842	< 0.825	< 0.93	N/A	< 0.87	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
2/18/2019		N/A	N/A	< 0.851	< 0.851	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	N/A	N/A
11/12/2024		N/A	N/A	< 1.83	< 1.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Harrison County Sanitary Landfill - 43-SDP-05-94P

Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Phenanthrene, ug/L (CAS NO - 85-01-8)	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenol, ug/L (CAS NO - 108-95-2)	2/24/2009	< 20	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phorate, ug/L (CAS NO - 298-02-2)	2/24/2009	< 60	N/A	< 60	< 60	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Propionitrile, ug/L (CAS NO - 107-12-0)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)		2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Safrole, ug/L (CAS NO - 94-59-7)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
2/18/2019		N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)		2/24/2009	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 1	N/A	2.24	N/A	N/A	N/A	N/A
	7/30/2014	N/A	N/A	N/A	N/A	N/A	N/A	2.53	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	0.598*	< 1	N/A	N/A	0.889*	N/A	N/A	N/A	N/A
	4/27/2015	< 1	N/A	N/A	N/A	N/A	< 1	6.85	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	6.13	N/A	N/A	N/A	N/A
	10/6/2015	< 1	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/14/2016	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2016	< 1	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/11/2017	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/27/2017	< 1	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A
	4/11/2018	N/A	0.288*	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	4/11/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	8/1/2018	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	0.718*	N/A	N/A

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Summary of Groundwater Chemistry Harrison County Sanitary Landfill - 43-SDP-05-94P


Other Constituents	Sample Date	MW-1A UPG	MW-14 UPG	MW-4A DNG	MW-5A DNG	MW-8A DNG	MW-10R DNG	MW-11A DNG	MW-12B DNG	MW-13R DNG	MW-16 DNG	MW-17 DNG
Sulfide, mg/L (CAS NO - 18496-25-8)	2/18/2019	N/A	0.701*	< 1	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	10/3/2019	N/A	0.352*	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/5/2020	N/A	0.404*	N/A	N/A	N/A	N/A	0.356*	N/A	N/A	N/A	N/A
	9/29/2020	N/A	24.2	N/A	N/A	N/A	N/A	11.1	N/A	N/A	N/A	N/A
	3/30/2021	N/A	< 10	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	8/31/2021	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/11/2022	N/A	< 2	N/A	N/A	N/A	N/A	0.877*	N/A	N/A	N/A	N/A
	8/23/2022	N/A	< 2	N/A	N/A	N/A	N/A	0.867*	N/A	N/A	N/A	N/A
	5/25/2023	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	9/26/2023	N/A	< 2	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	2/24/2009	< 10	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2014	N/A	N/A	N/A	N/A	< 10.2	N/A	< 10.5	N/A	N/A	N/A	N/A
	10/31/2014	N/A	N/A	< 11	< 10.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2015	N/A	N/A	N/A	N/A	N/A	< 51	N/A	N/A	N/A	N/A	N/A
	4/14/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2016	N/A	N/A	N/A	N/A	< 10.3	< 10.5	< 11.9	N/A	< 10.9	N/A	N/A
	8/1/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/18/2019	N/A	N/A	< 10.5	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/30/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	11/12/2024	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Toxaphene, ug/L (CAS NO - 8001-35-2)	2/24/2009	< 2	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
4/10/2014		N/A	N/A	N/A	N/A	< 2.15	N/A	< 2.13	N/A	N/A	N/A	N/A
10/31/2014		N/A	N/A	< 11.1	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4/27/2015		N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
4/14/2016		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
10/4/2016		N/A	N/A	N/A	N/A	< 2	< 2.08	< 2.15	N/A	< 2.2	N/A	N/A
8/1/2018		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A
2/18/2019		N/A	N/A	< 2.11	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/30/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A
11/12/2024		N/A	N/A	< 1.83	< 1.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.



Appendix D

Summary of Statistical Methodology

SUMMARY OF STATISTICAL METHODOLOGY

Purpose

The purpose of this document is to provide the statistical method used in the evaluation of groundwater analytical data collected from the groundwater monitoring network of the municipal solid waste landfill (MSWLF) unit at the Harrison County Sanitary Landfill (Landfill).

Statistical Method

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The detection monitoring statistical programs includes diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time Series Plots
- Shapiro-Wilk test for normality
- Ohio Environmental Protection Agency (EPA) Method for identification of outliers
- Mann-Kendall/Sen's Slope trend test

Management of Non-Detect Data

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half ($\frac{1}{2}$) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution of the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

Management of Outliers

Background datasets are evaluated for outliers using the Ohio EPA Method included in the Sanitas™ statistical software program and described below, which includes the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets that contain less than 75% of the measured concentrations below the PQL. Outliers are not confirmed unless a physical cause or explanation for the outlier is determined.

Management of Data (ND data < 75%)

If less than 75% of the background dataset is below the PQL, outliers are statistically evaluated using the following guidelines.

- A parametric dataset with $n < 20$ is evaluated with the Dixon's outlier test.
- A parametric dataset with $n \geq 20$ is evaluated with the Rosner's outlier test.
- A non-parametric dataset is evaluated with the Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier is not found using the above tests, but the highest value data point exceeds the second highest data point by an order of magnitude, the highest point is considered an outlier.

Management of Data (ND data \geq 75%)

If greater than or equal to 75% of the background dataset is less than the PQL, outliers are statistically evaluated using the following guidelines.

- Single detection \geq the PQL:
 - If \geq 50% of the background dataset has detections \geq the method detection limit (MDL), any value \geq two times the PQL of background is considered an outlier.
 - If $<$ 50% of the background dataset has detections \geq the MDL, any value \geq the PQL of background is considered an outlier.
- Two or more detections \geq the PQL:
 - If \geq 50% of the background dataset has detections \geq the MDL, any value \geq three times the PQL of background is considered an outlier.
 - If $<$ 50% of the background dataset has detections \geq the MDL, any value \geq two times the PQL of background is considered an outlier.

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report.

Detection Monitoring Statistical Program

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Intrawell prediction limits with retesting were selected as the appropriate statistical method for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historic detections in background. Prediction limits are established using the process below. Data from the most recent sampling event is compared to the prediction limits for the determination of SSIs.

Intrawell Prediction Limits with Retesting

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric intrawell prediction limits are calculated if at least five datasets have been collected from the background dataset.
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, non-parametric intrawell prediction limits are calculated if at least five datasets have been collected from the background dataset.
- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-2 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If all of the retesting results are above the prediction limit, the SSI is confirmed, and the monitoring point should be placed into the assessment monitoring program. If any retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Updating the Background Dataset for Intrawell Prediction Limits

If no SSI is confirmed for any two-year period, the intrawell background dataset is updated using the following procedure:

- Test the new dataset for normal distribution either outright or through a transformation using Ladder of Powers using the Shapiro-Wilk test.
- Test the new dataset for statistically significant outliers using the Ohio EPA Method, and remove the confirmed outliers (see the “Management of Outliers” section).
- Test the new dataset for statistically significant trends using the Mann-Kendall/Sen’s Slope trend test. If a statistically significantly increasing trend is detected, the monitoring point will be placed into the assessment monitoring program or treated with the leachate, whichever is appropriate.
- If the dataset has a normal distribution and no statistically significant increasing trend is present, a two-sample Welch’s t-test at a 0.01 significance level is performed to compare current background to the most recent two years of detection monitoring data. If the Welch’s t-test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.
- If the dataset does not have a normal distribution and no statistically significant increasing trend is present, a two-sample non-parametric Wilcoxon rank-sum test (also known as the Mann-Whitney test) at a 0.01 significance level is performed to compare current background to the most recent two years of detection monitoring data. If the Wilcoxon rank-sum test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.
- If the Welch’s t-test or the Wilcoxon rank-sum tests are not significant, the most recent two years of detection data will be added to the intrawell background dataset.

The process will repeat every two years in which an SSI is not confirmed.

Double Quantification Method

The quasi-statistical “double quantification” method is used for constituents not detected in the background monitoring set. If a constituent is detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested for prior to the next regularly scheduled sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring point must be placed into the assessment monitoring program.

Assessment Monitoring Statistical Program

Interwell Prediction Limits

Interwell prediction limits were selected as the appropriate statistical method for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in background. Prediction limits are established using the process below. Data from the most recent sampling event is compared to the prediction limits for the determination of SSIs.

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).


Confidence Intervals or Confidence Bands

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). In the event that a monitoring well enters into assessment monitoring, the assessment monitoring statistical evaluations will be performed using the most recent eight samples or all samples if less than eight samples are available. The confidence intervals or confidence bands used for the assessment monitoring statistical evaluation will be established using the process below. Transformation of the distribution will not be considered.

- A parametric confidence interval around a normal mean will be calculated if the dataset has a normal distribution and no statistically significant trend is present.
- A non-parametric confidence interval around a median will be calculated if the dataset does not have a normal distribution and no statistically significant trend is present.
- Non-parametric confidence bands around a Theil-Sen trend line will be calculated if the dataset has a statistically significant trend.

In the event that the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required.

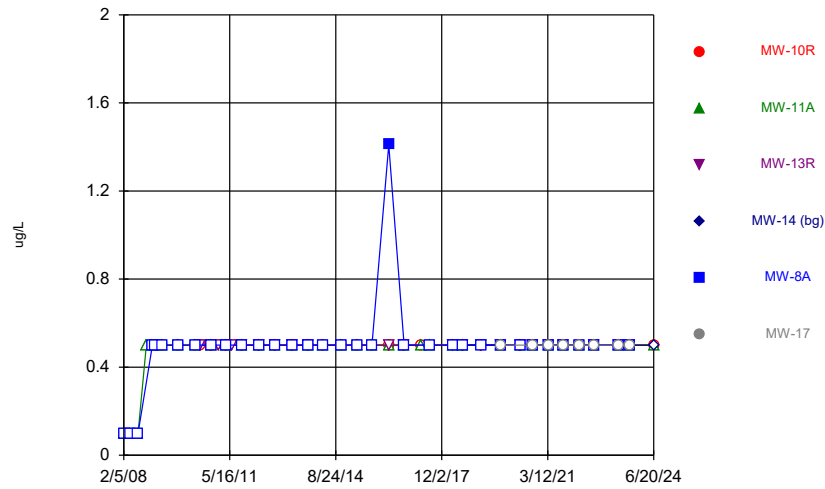
Statistical output for the reporting period statistical evaluations are included in Attachment A, Spring 2024 Statistical Evaluation Output, and Attachment B, Fall 2024 Statistical Evaluation Output.



Attachment A
Spring 2024 Statistical Evaluation Output

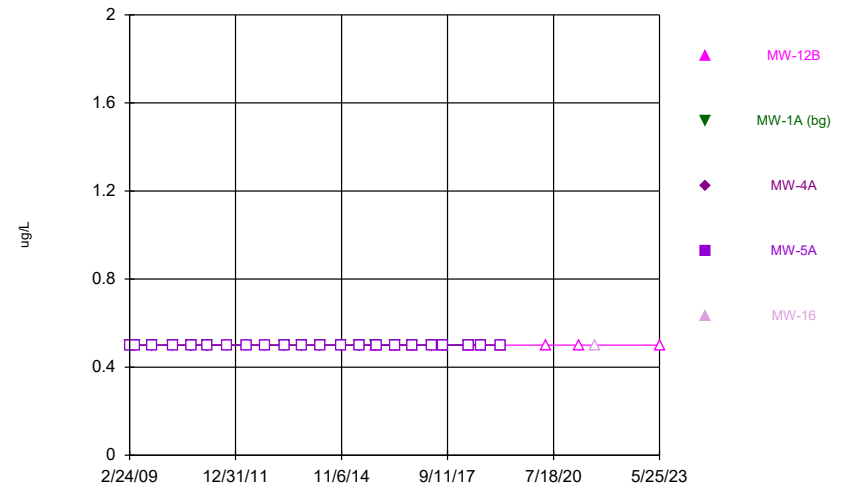
Attachment A.1
Time Series Plots

Time Series



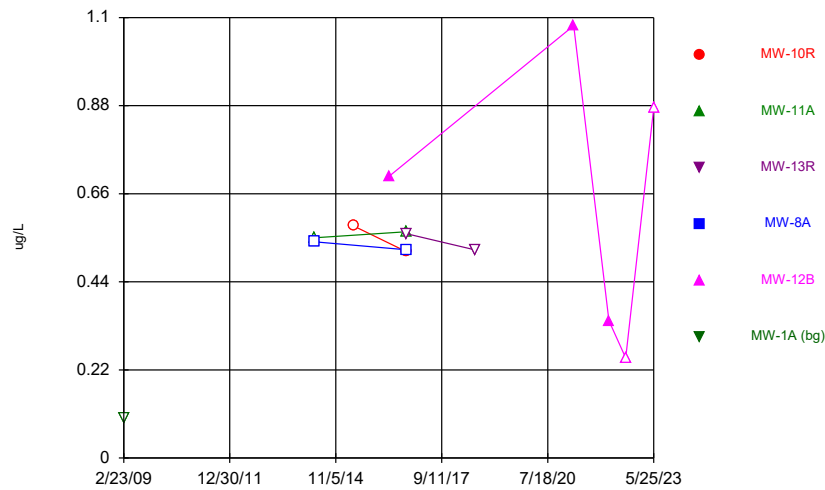
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



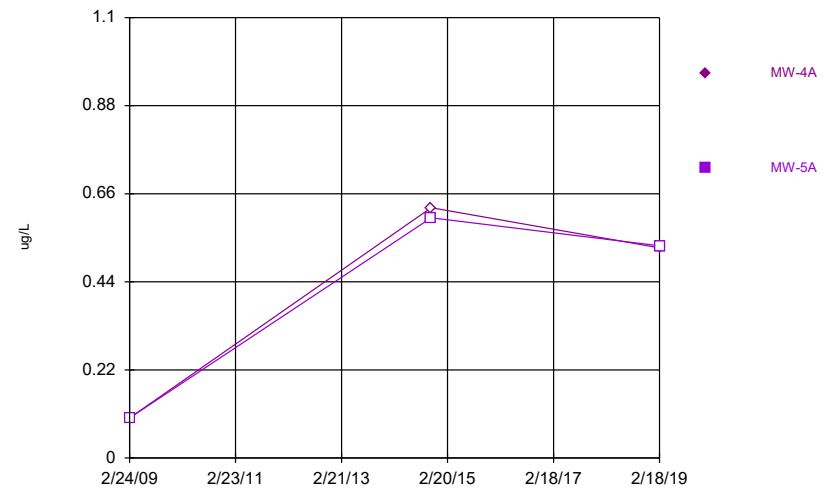
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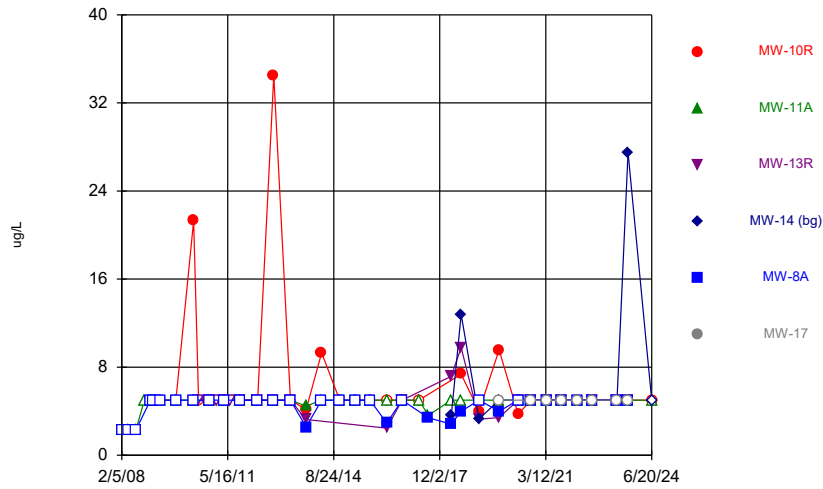
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

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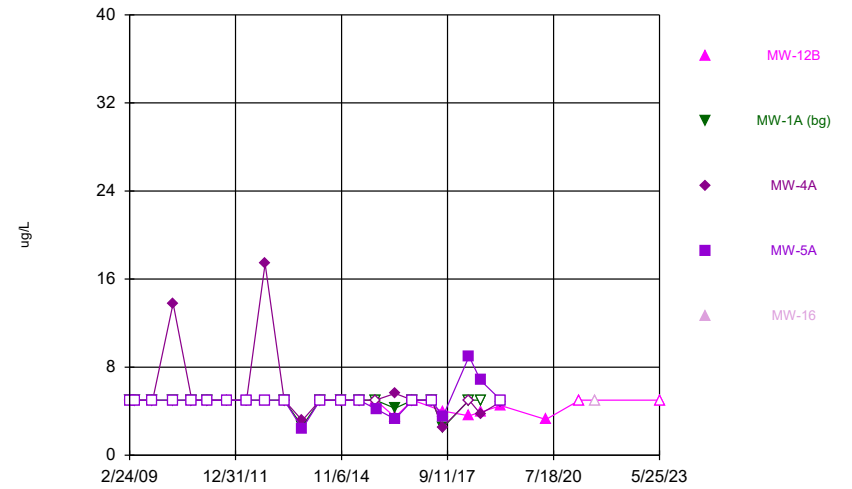
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Time Series



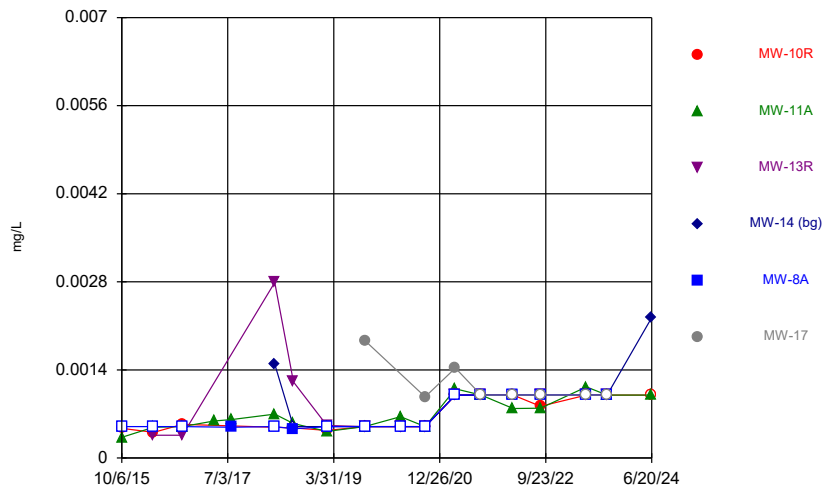
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



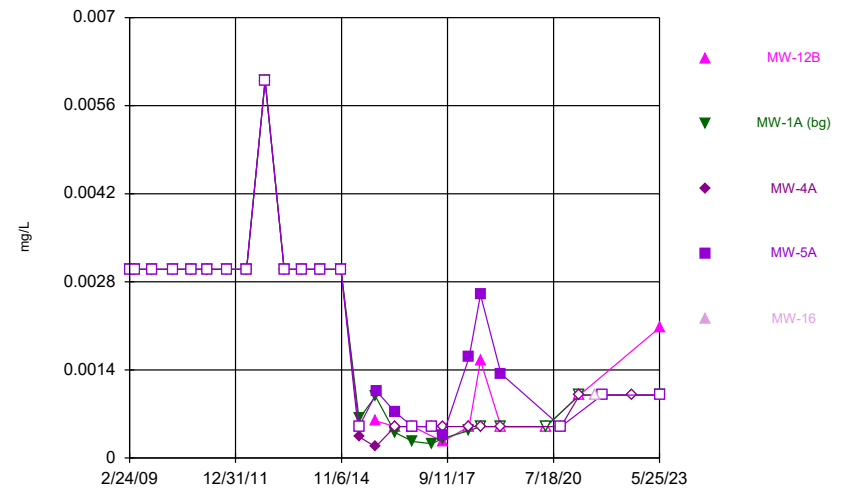
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



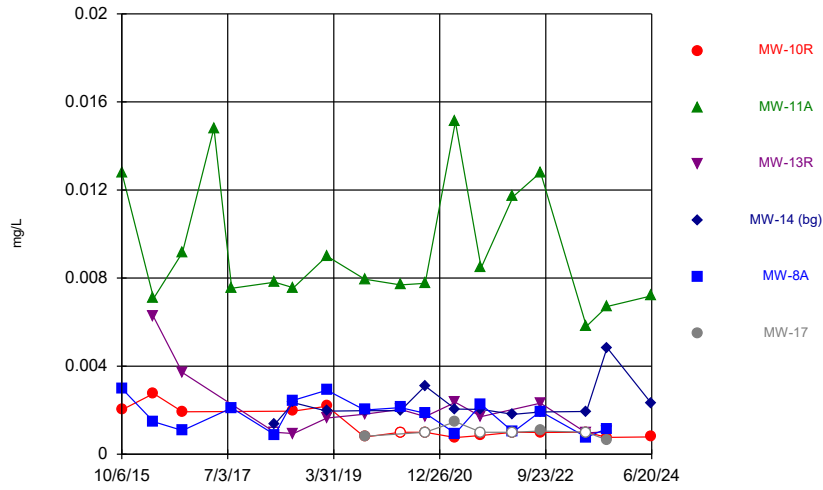
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



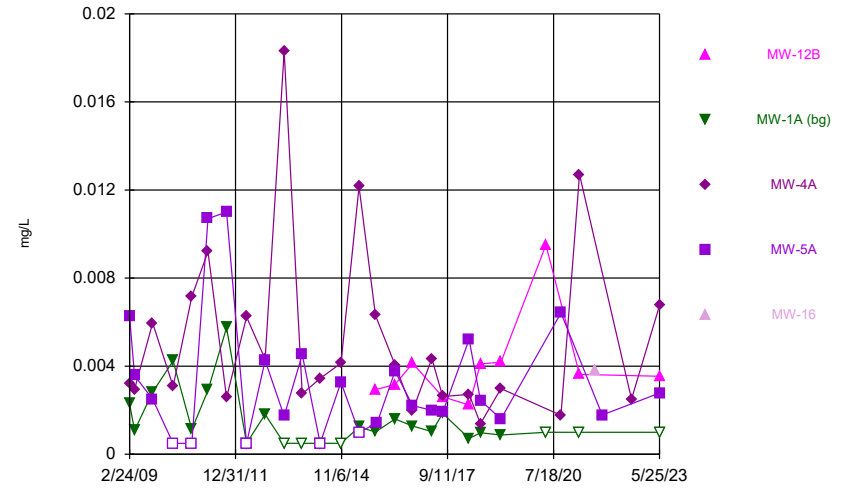
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



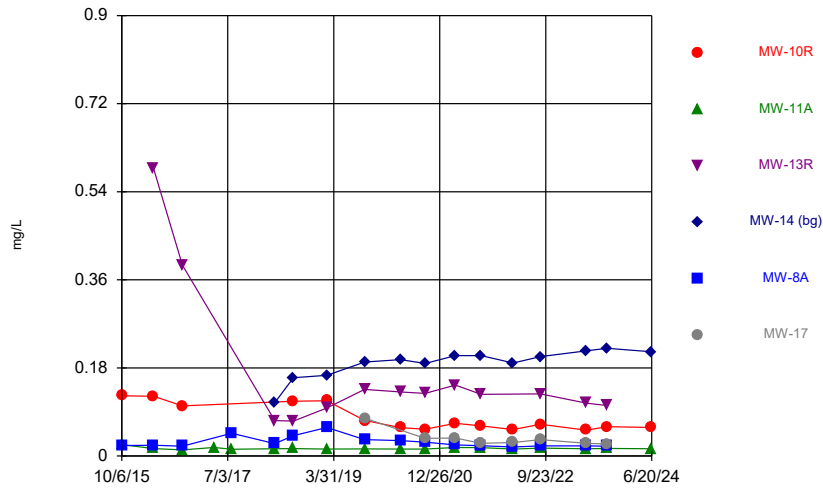
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



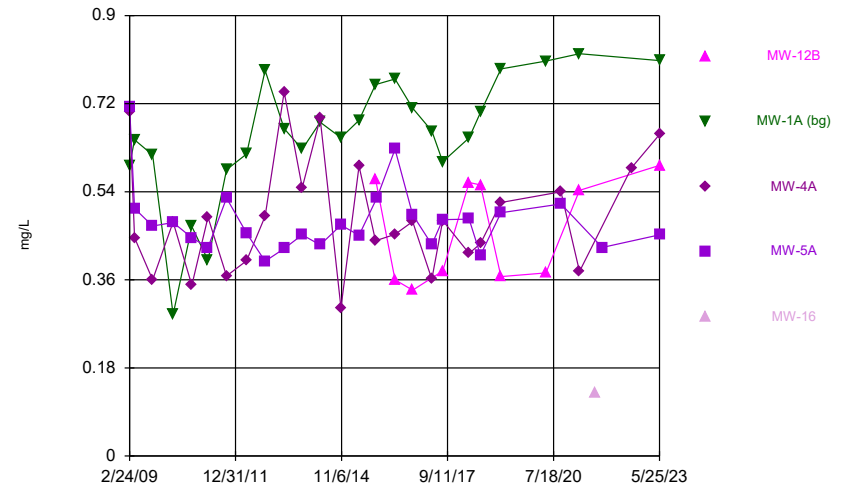
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



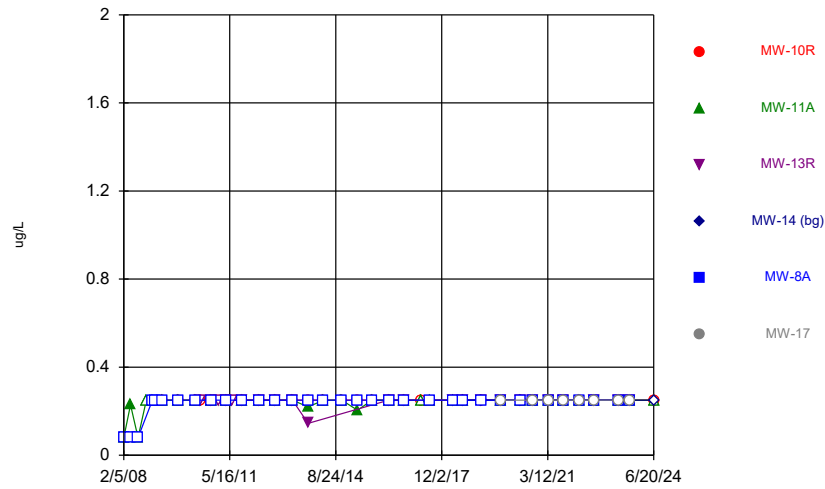
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



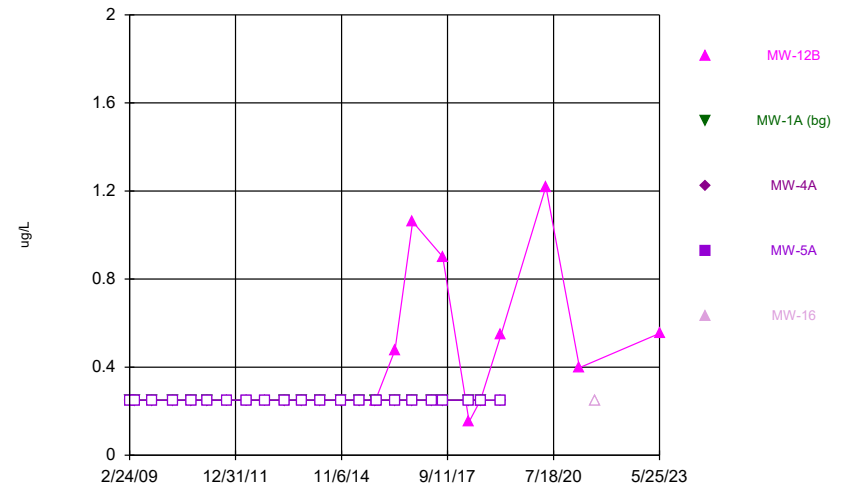
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



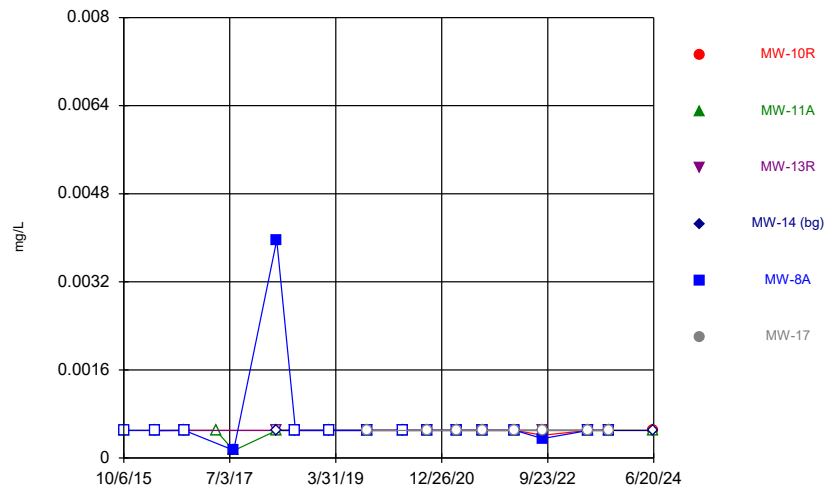
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



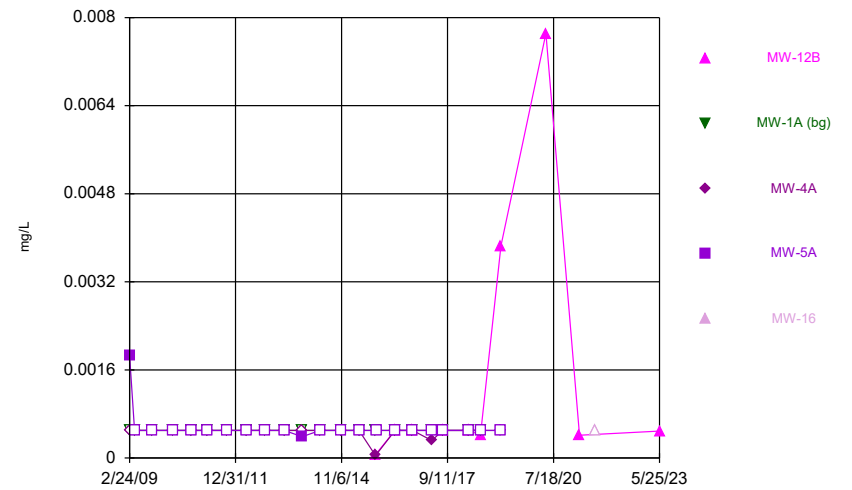
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



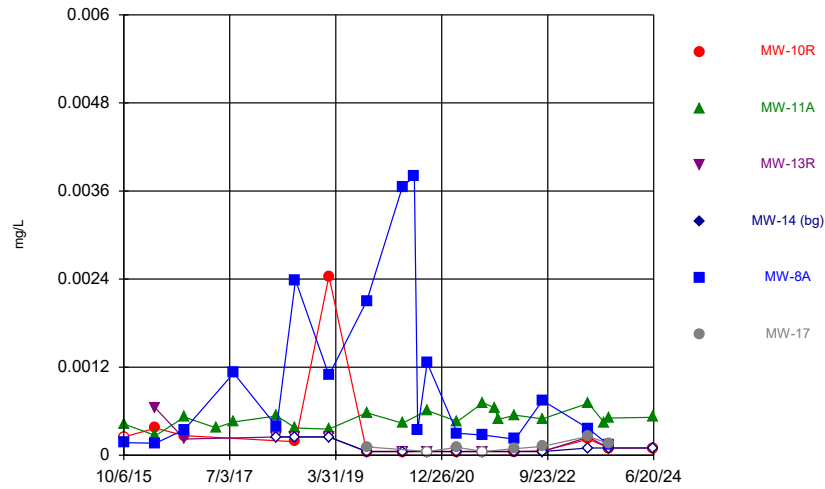
Constituent: Beryllium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



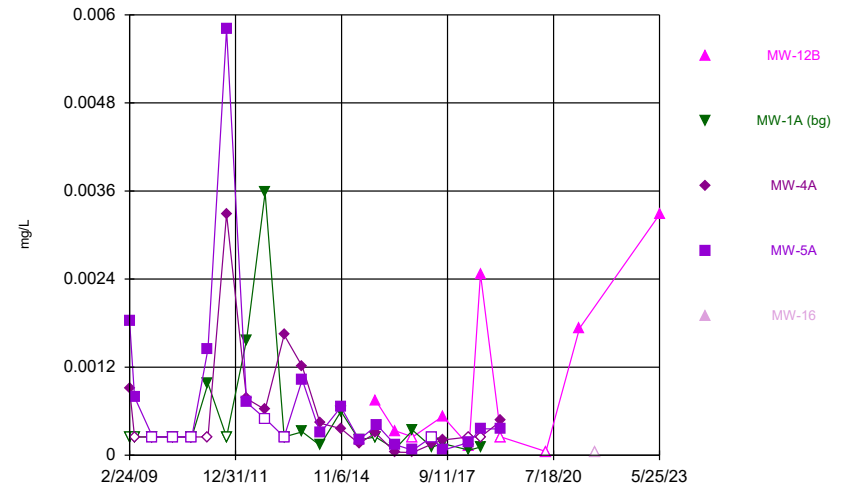
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Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



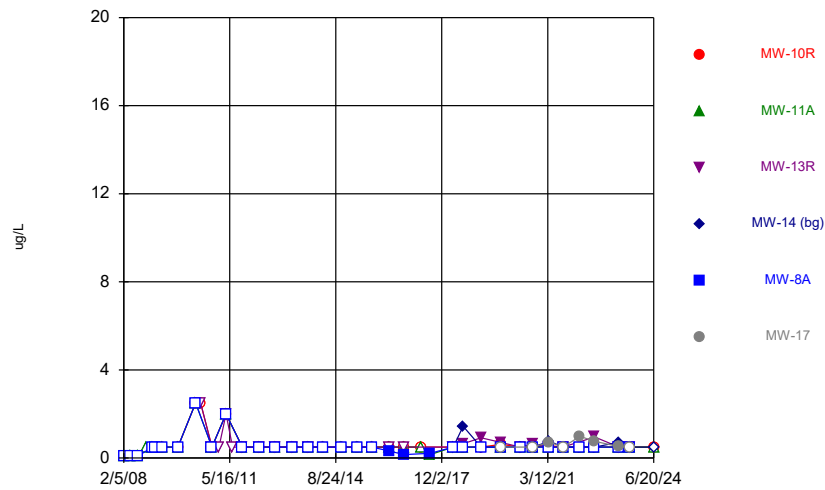
Constituent: Cadmium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



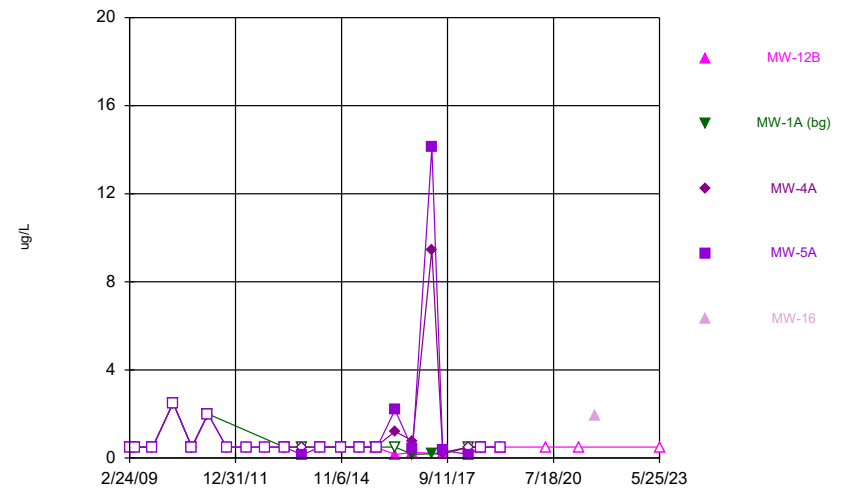
Constituent: Cadmium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



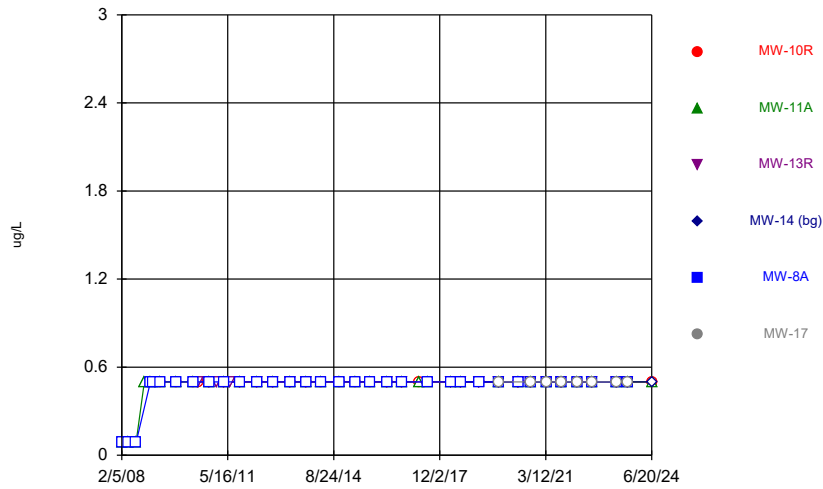
Constituent: Carbon disulfide Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



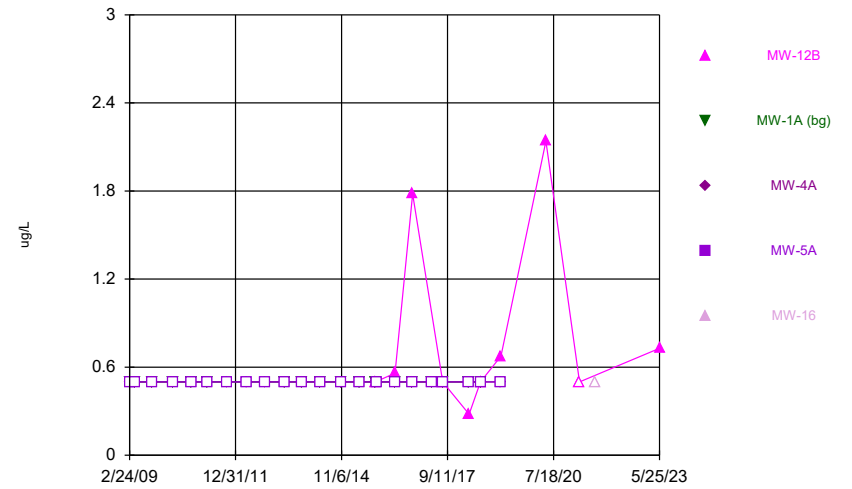
Constituent: Carbon disulfide Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



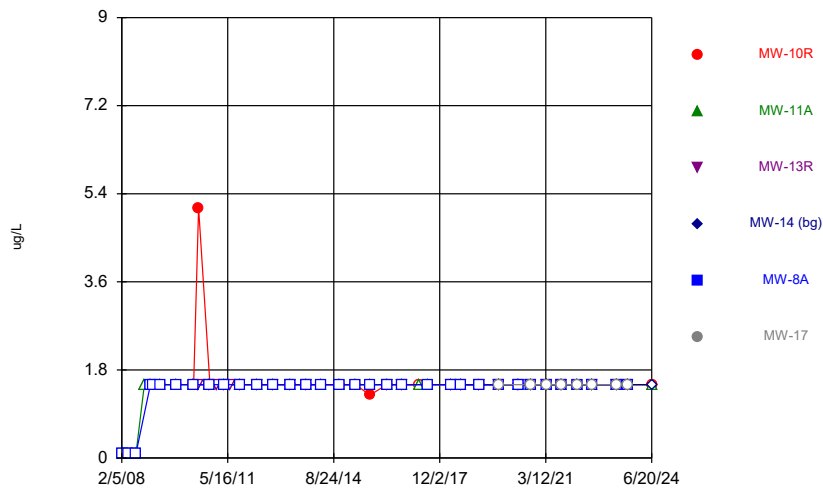
Constituent: Chlorobenzene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



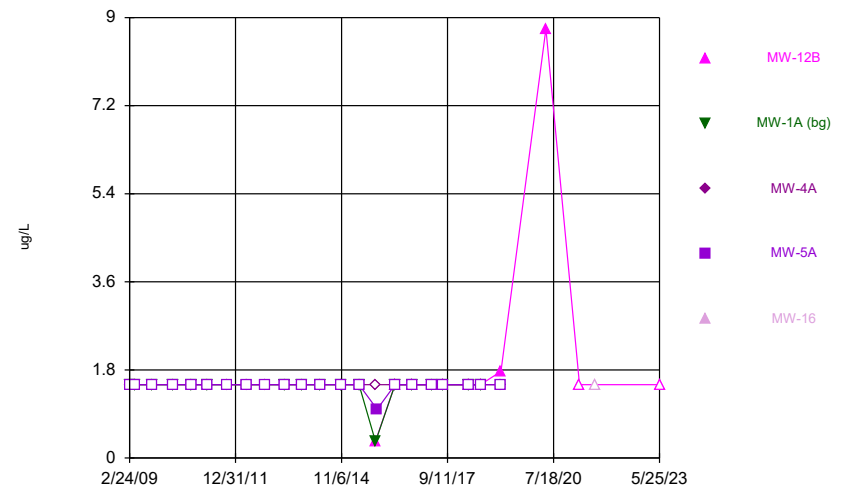
Constituent: Chlorobenzene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



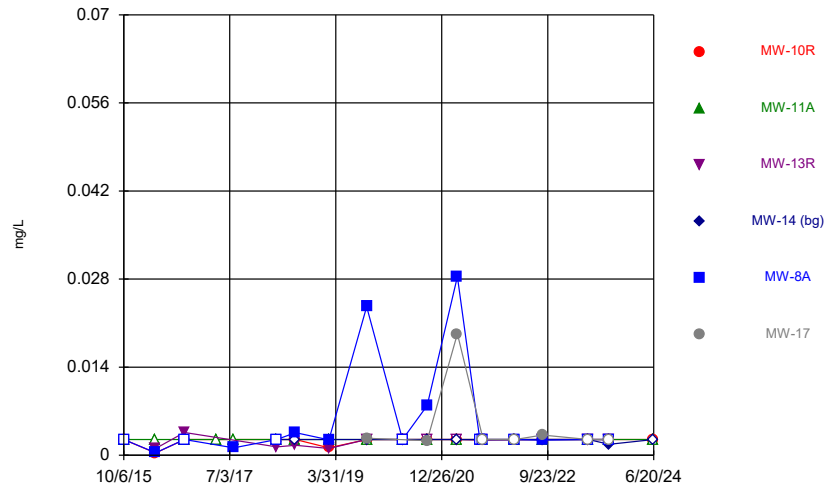
Constituent: Chloromethane Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



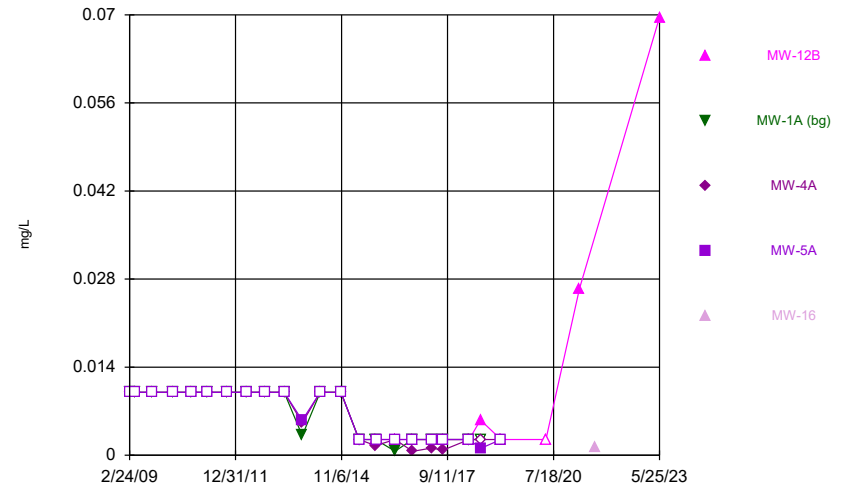
Constituent: Chloromethane Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



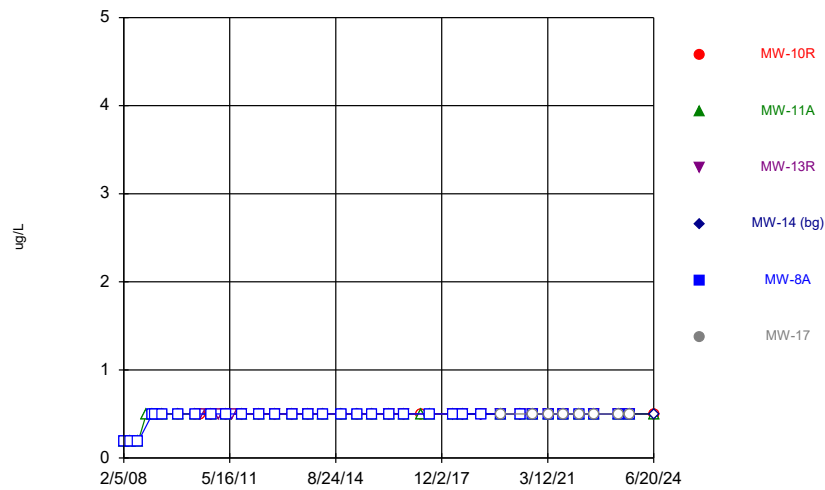
Constituent: Chromium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



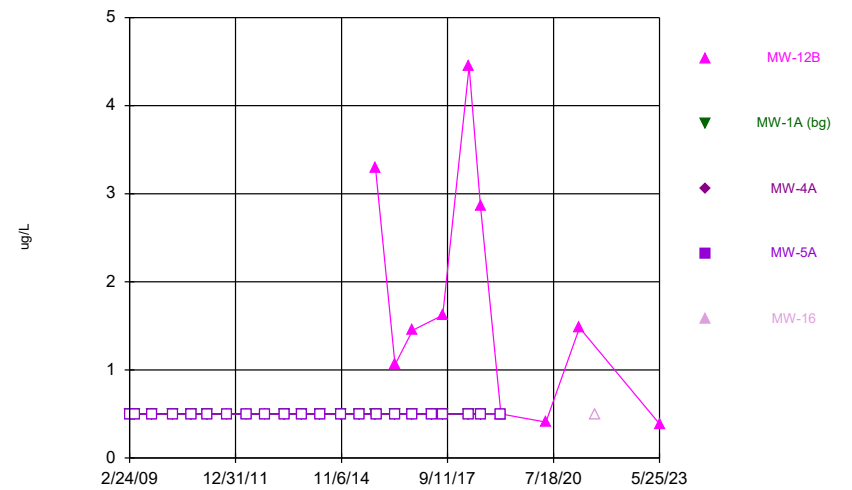
Constituent: Chromium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



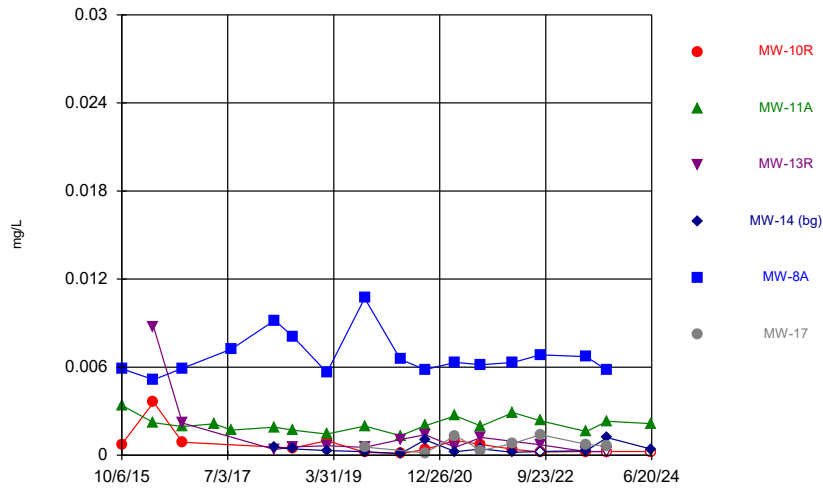
Constituent: cis-1,2-Dichloroethene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



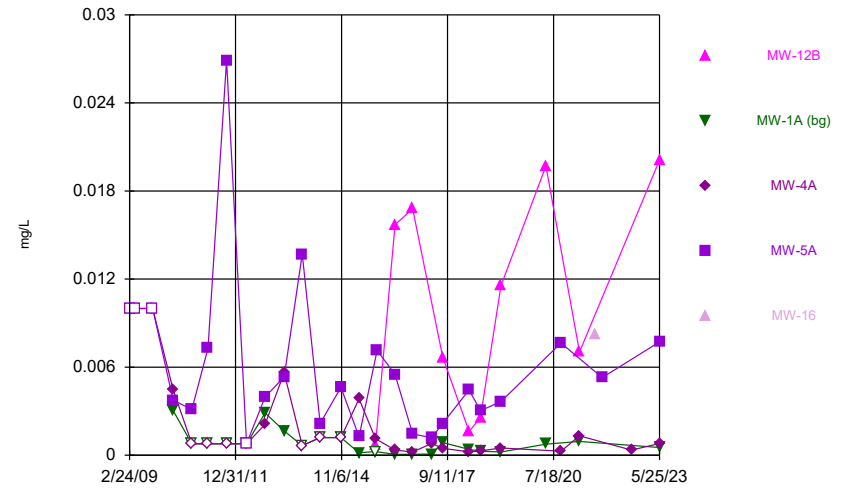
Constituent: cis-1,2-Dichloroethene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



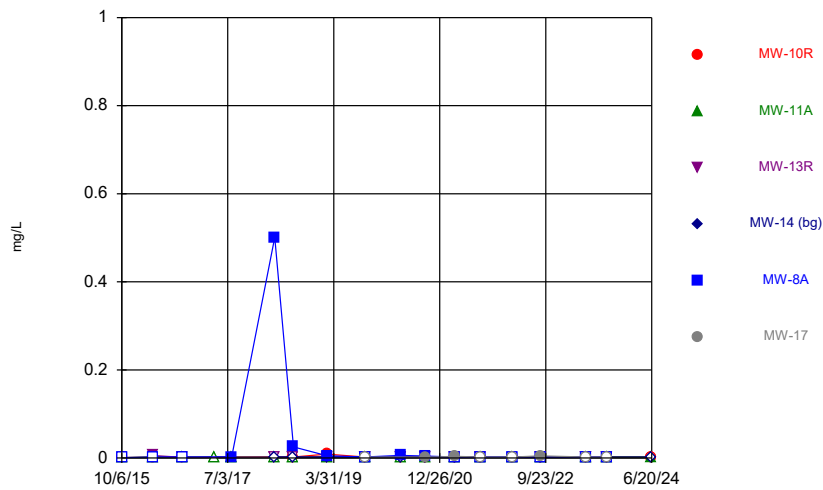
Constituent: Cobalt Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



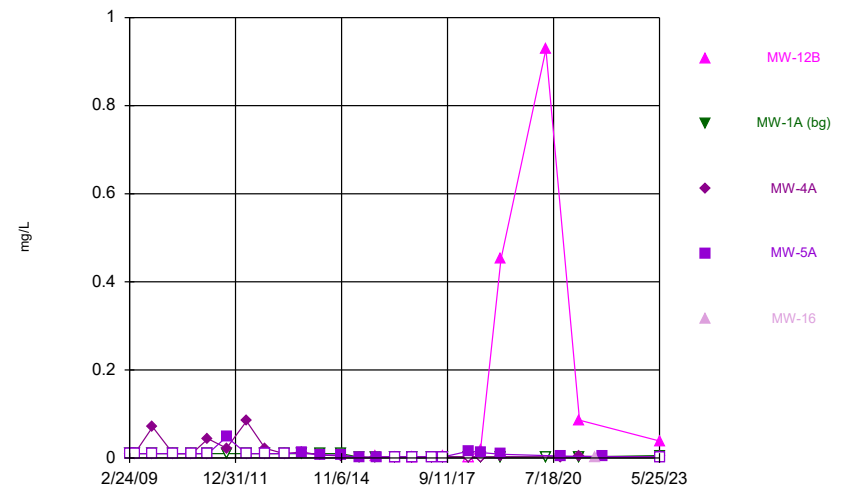
Constituent: Cobalt Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



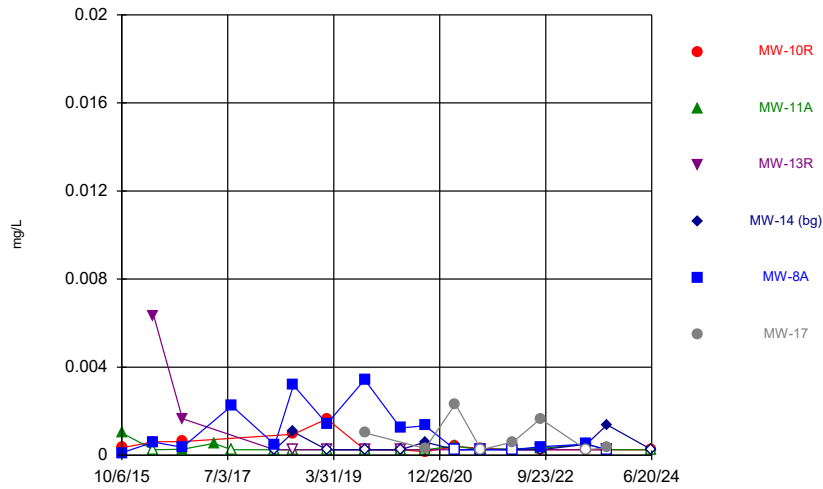
Constituent: Copper Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



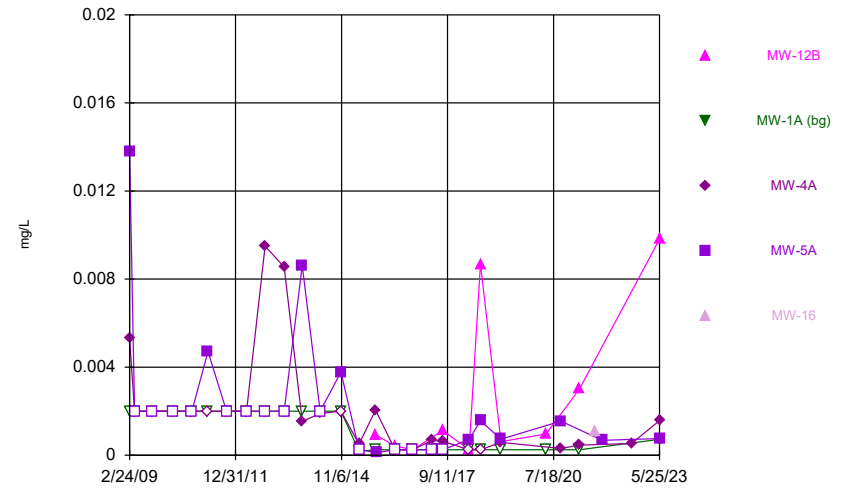
Constituent: Copper Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



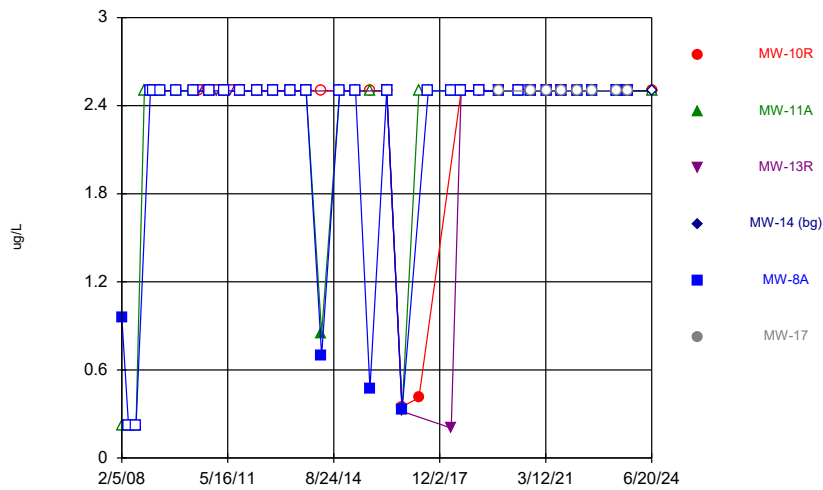
Constituent: Lead Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



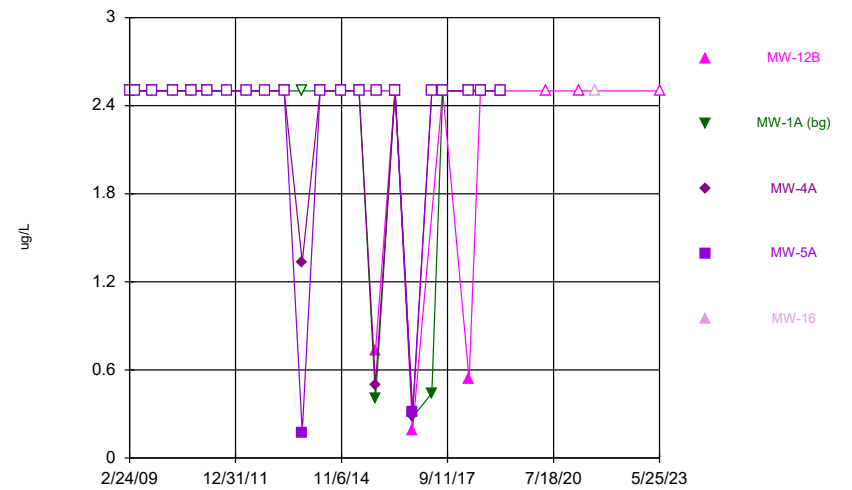
Constituent: Lead Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



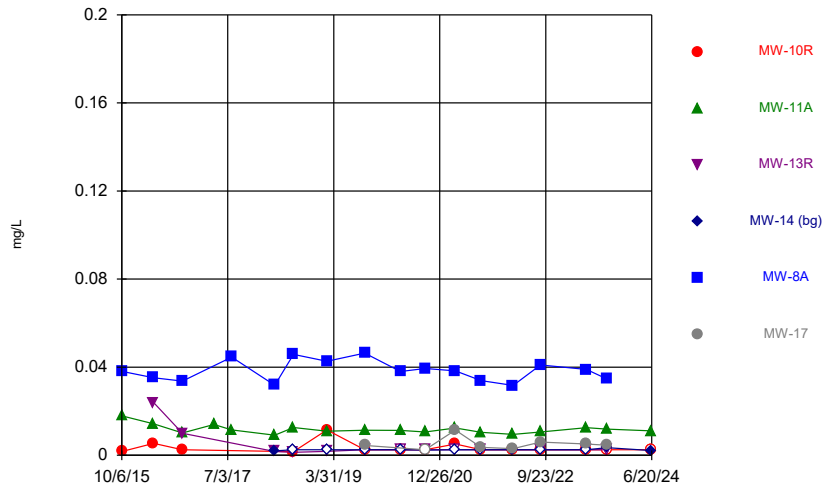
Constituent: Methylene Chloride Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



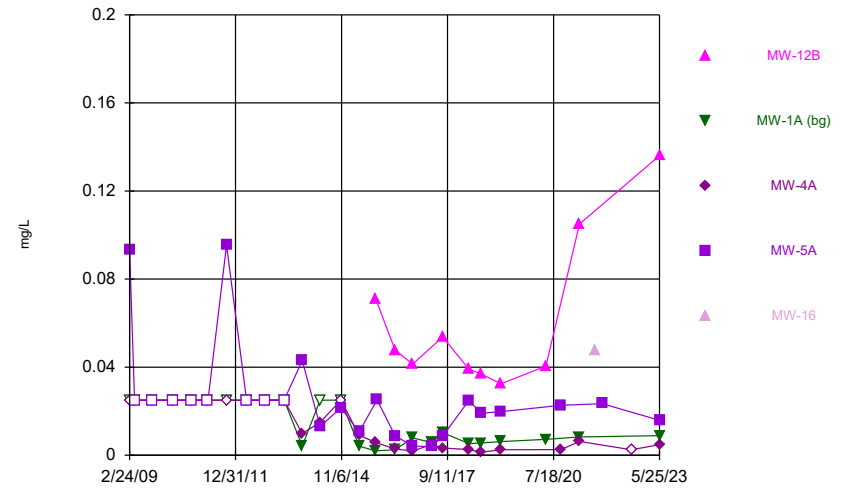
Constituent: Methylene Chloride Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



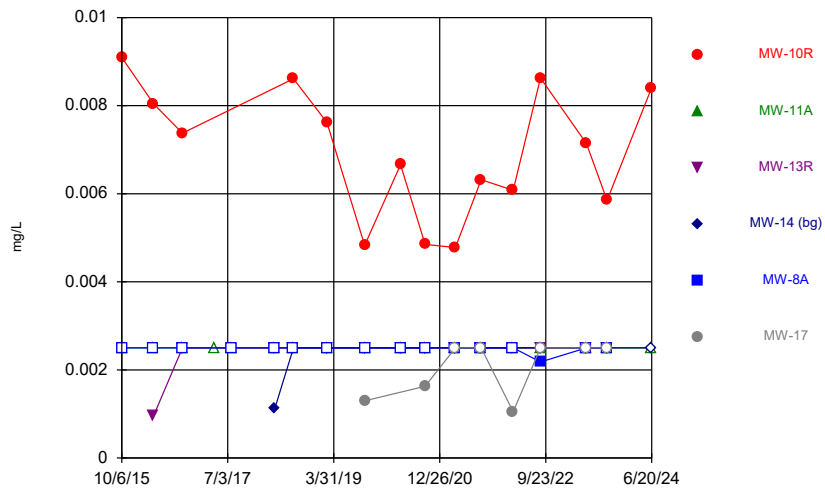
Constituent: Nickel Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



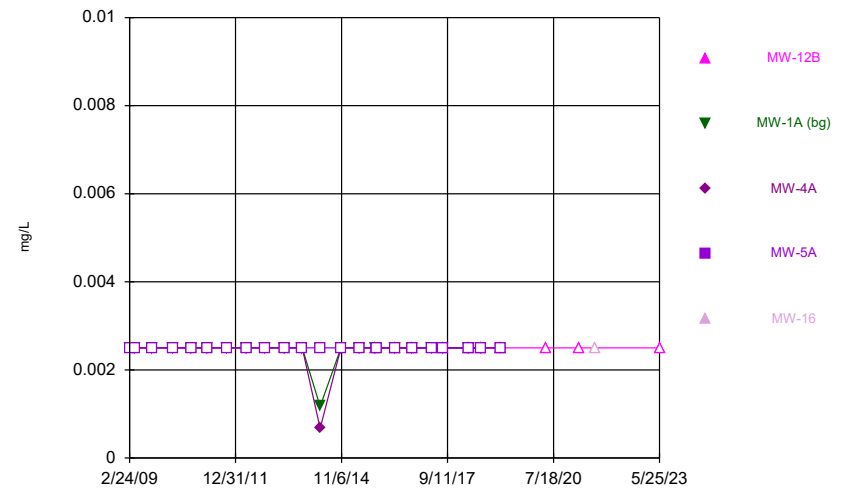
Constituent: Nickel Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



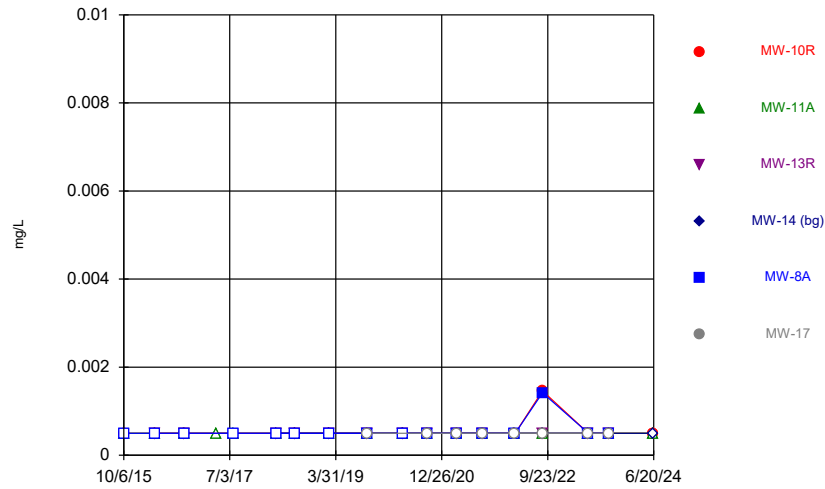
Constituent: Selenium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



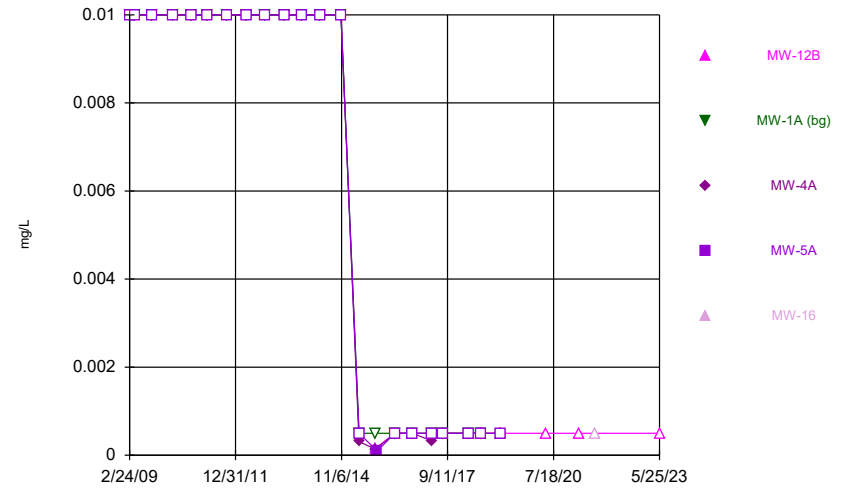
Constituent: Selenium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



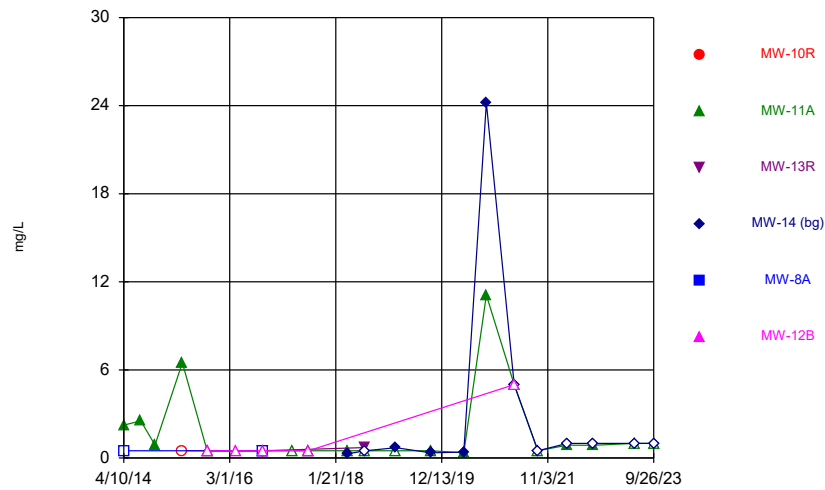
Constituent: Silver Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



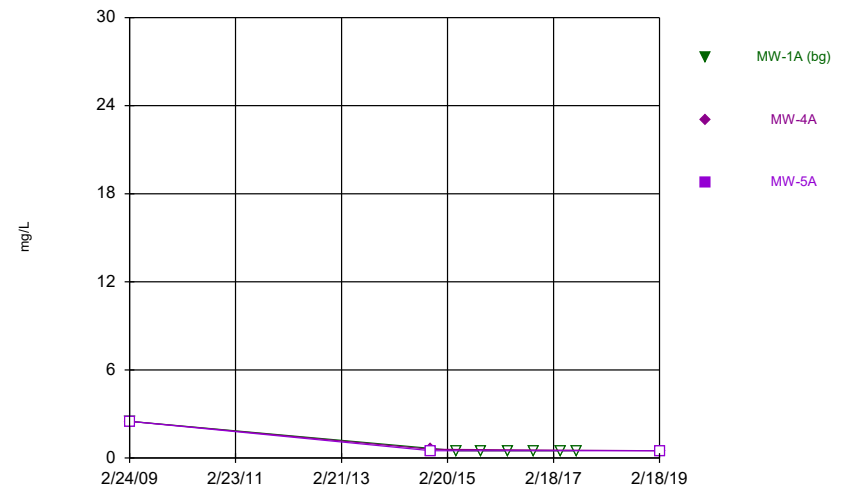
Constituent: Silver Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



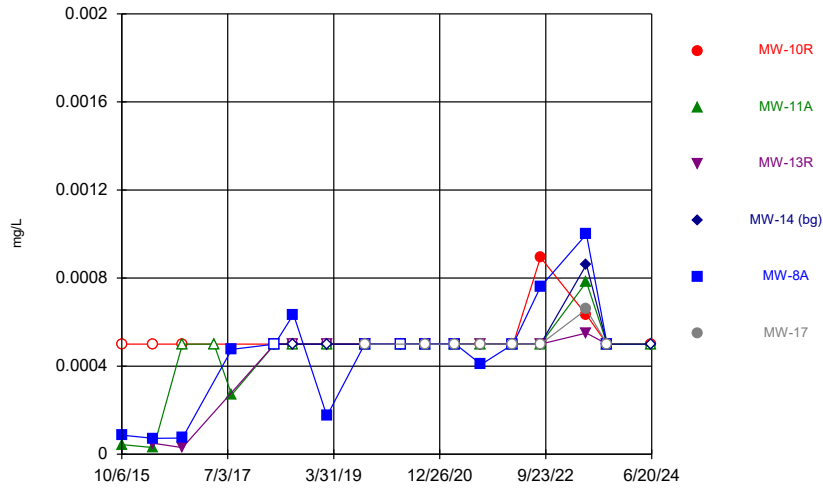
Constituent: Sulfide Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



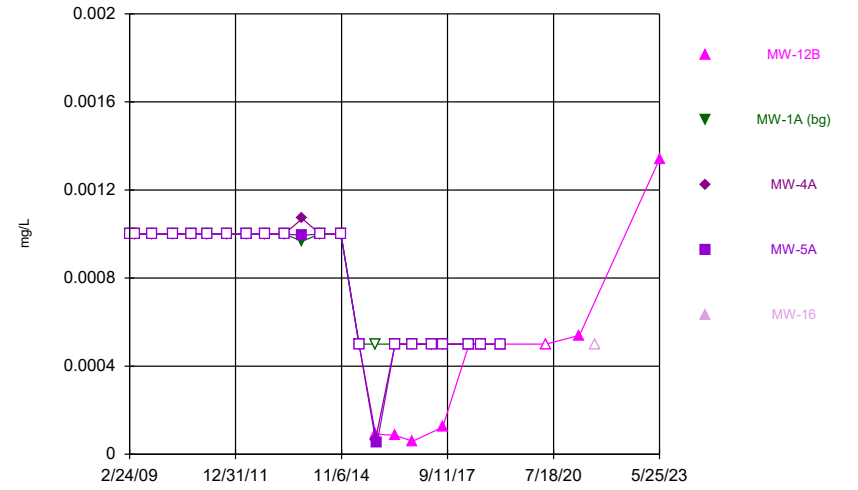
Constituent: Sulfide Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



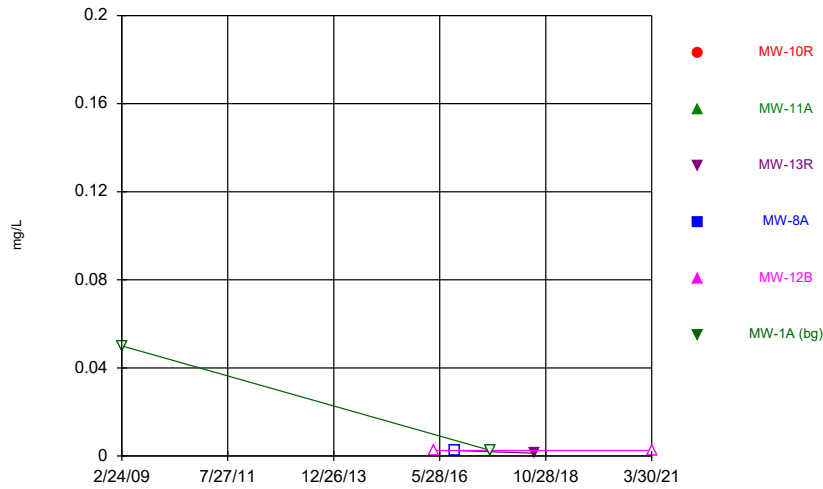
Constituent: Thallium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



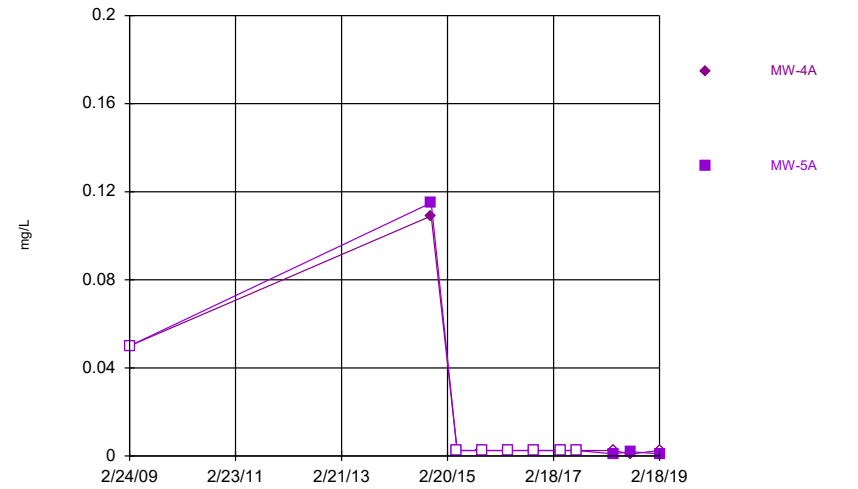
Constituent: Thallium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



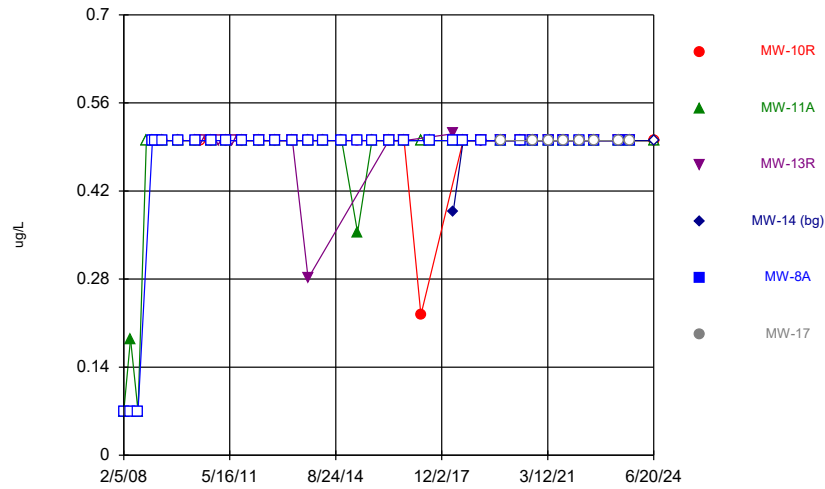
Constituent: Tin Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



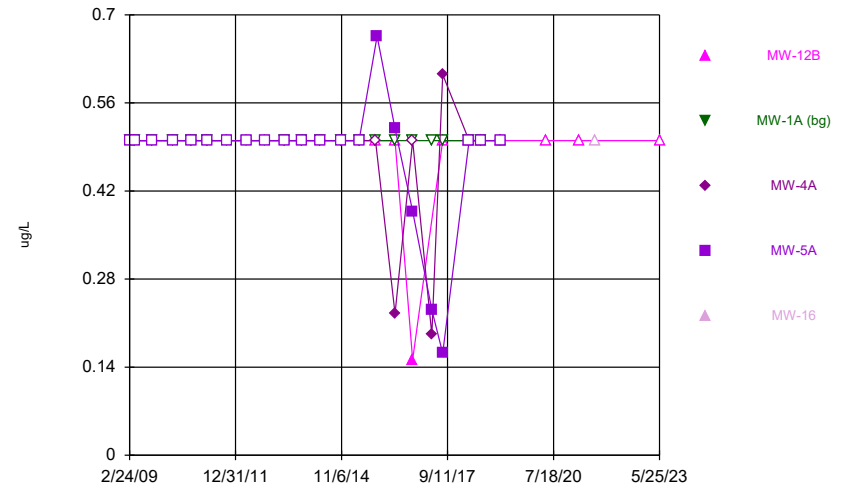
Constituent: Tin Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



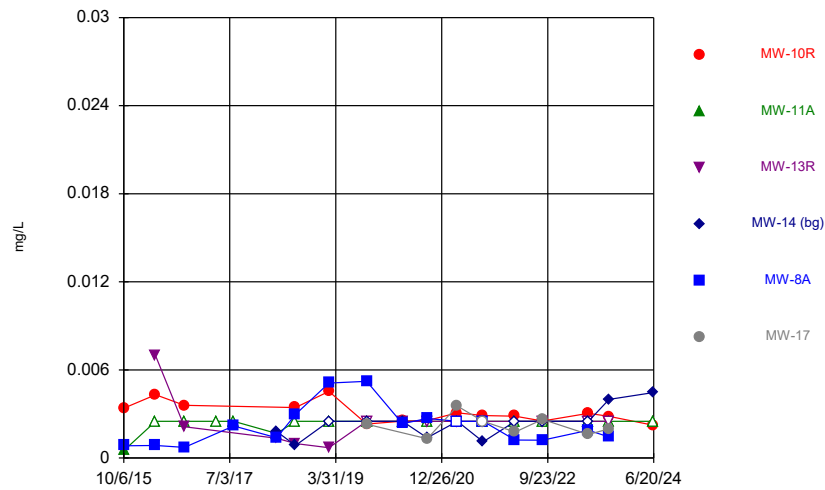
Constituent: Toluene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



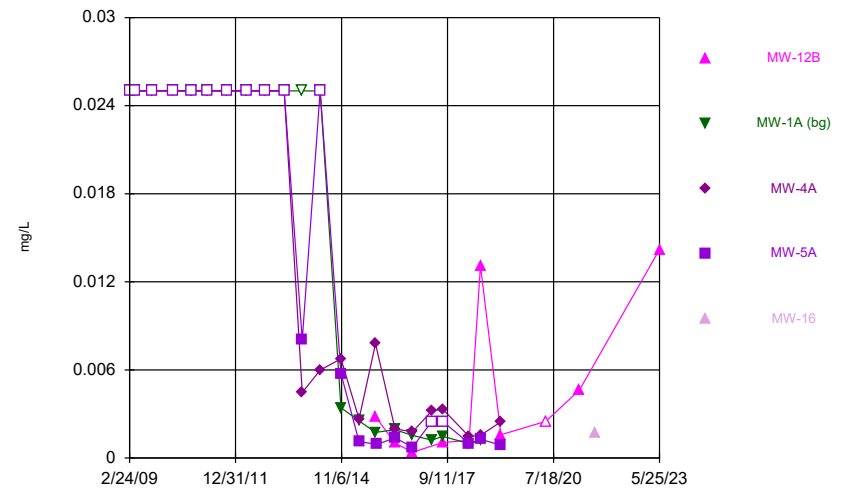
Constituent: Toluene Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



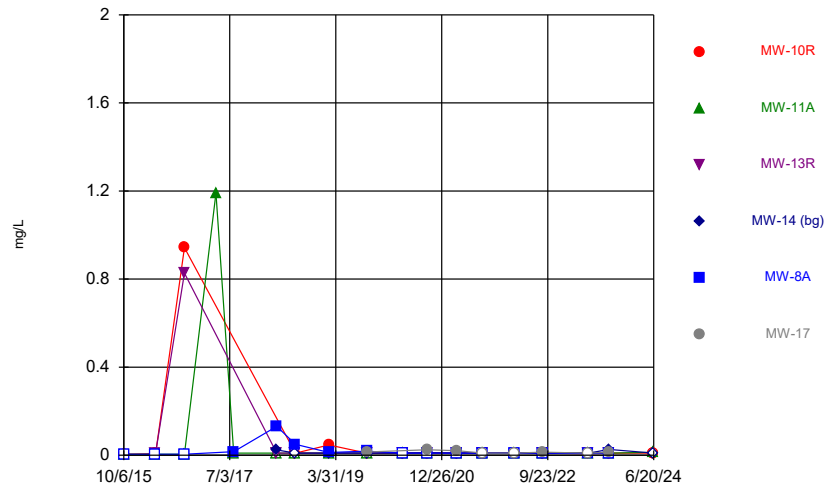
Constituent: Vanadium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



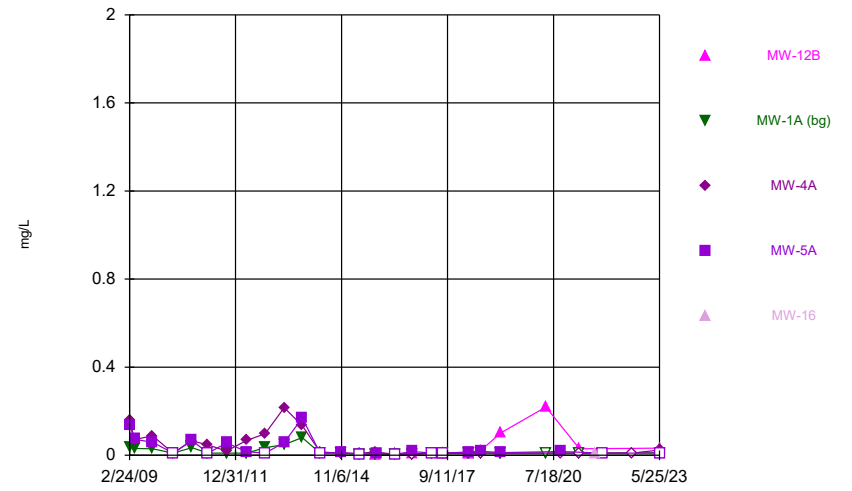
Constituent: Vanadium Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



Constituent: Zinc Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



Constituent: Zinc Analysis Run 10/21/2024 3:08 PM View: 2024SSN - Time Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Attachment A.2

Outlier Analysis

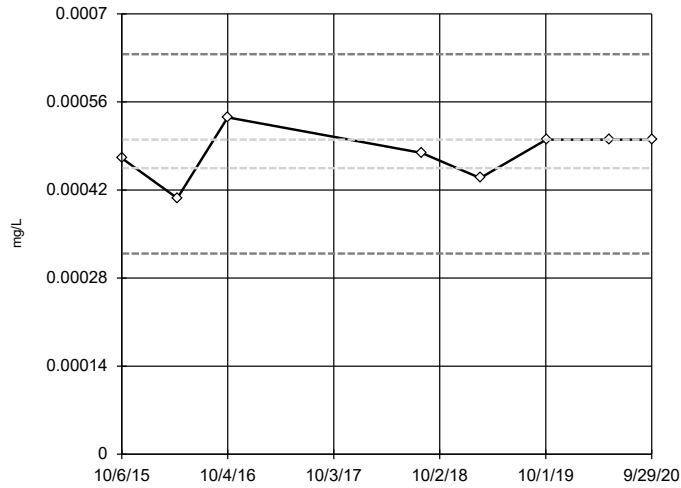
MW-10R BG Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 10/21/2024, 4:48 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.0004789	0.0000403	normal	ShapiroWilk
Arsenic (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.001703	0.0006967	normal	ShapiroWilk
Barium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.09476	0.02843	normal	ShapiroWilk
Cadmium (mg/L)	MW-10R	Yes	0.00244	2/18/2019	NP	NaN	8	0.0004577	0.0008098	normal	ShapiroWilk
Chromium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.002069	0.0008285	normal	ShapiroWilk
Cobalt (mg/L)	MW-10R	Yes	0.00361	4/14/2016	NP	NaN	8	0.0009301	0.001127	normal	ShapiroWilk
Copper (mg/L)	MW-10R	Yes	0.0009655,0.00893	10/6/2015,2/18/2019	NP	NaN	8	0.003021	0.002451	normal	ShapiroWilk
Lead (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.0006052	0.0004976	normal	ShapiroWilk
Nickel (mg/L)	MW-10R	Yes	0.0115	2/18/2019	NP	NaN	8	0.003769	0.003336	normal	ShapiroWilk
Selenium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.007135	0.001599	normal	ShapiroWilk
Vanadium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.003329	0.0008304	normal	ShapiroWilk
Zinc (mg/L)	MW-10R	Yes	0.9426	10/4/2016	NP	NaN	8	0.1303	0.3285	normal	ShapiroWilk

Tukey's Outlier Screening

MW-10R

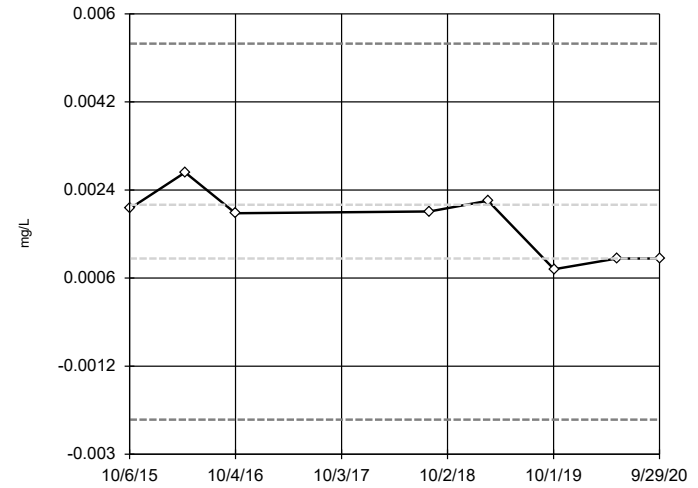


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0006358,
 low cutoff = 0.000319,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

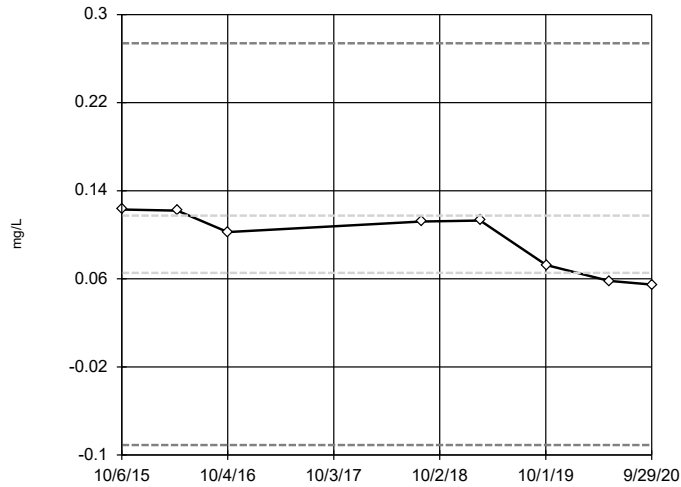


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00539,
 low cutoff = -0.00292,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

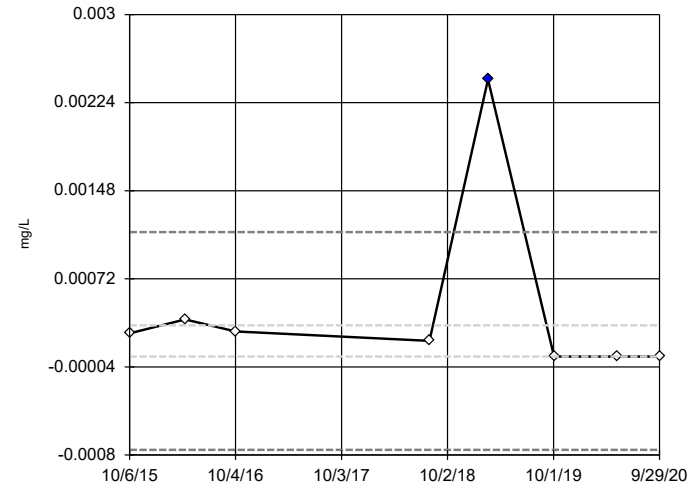


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.2739,
 low cutoff = -0.091,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

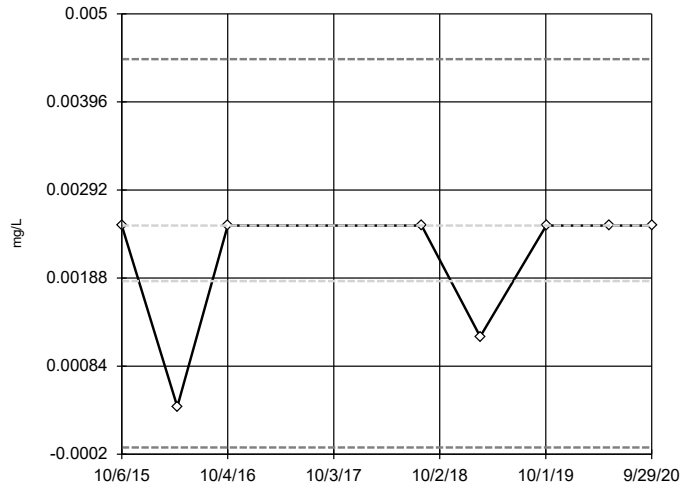


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.001123,
 low cutoff = -0.0007548,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

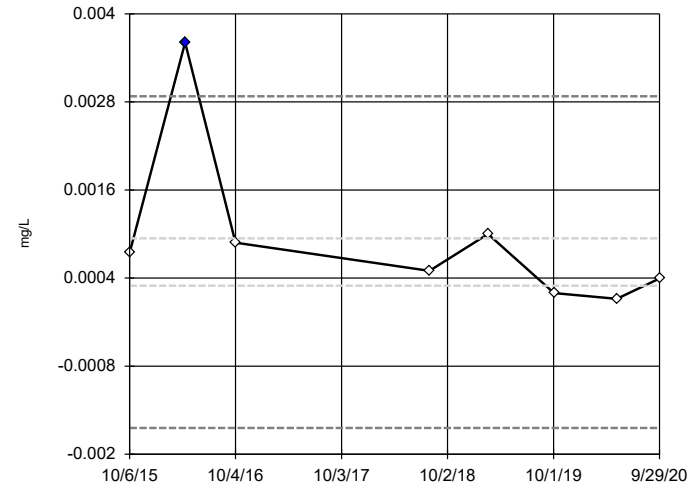


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.004465,
 low cutoff = -0.00012,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

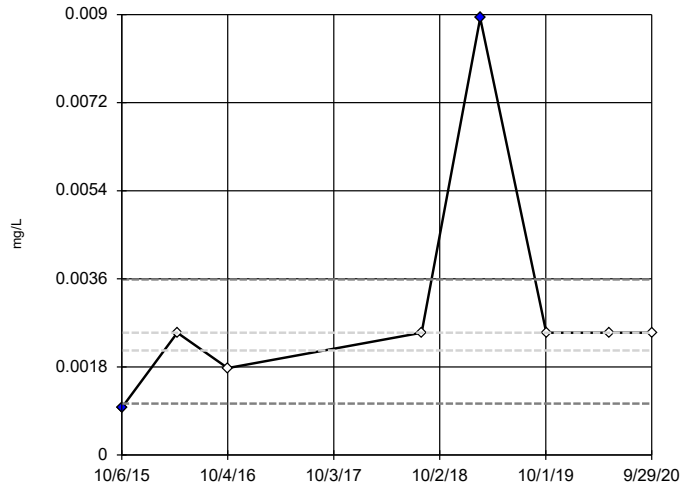


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.002878,
 low cutoff = -0.001641,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

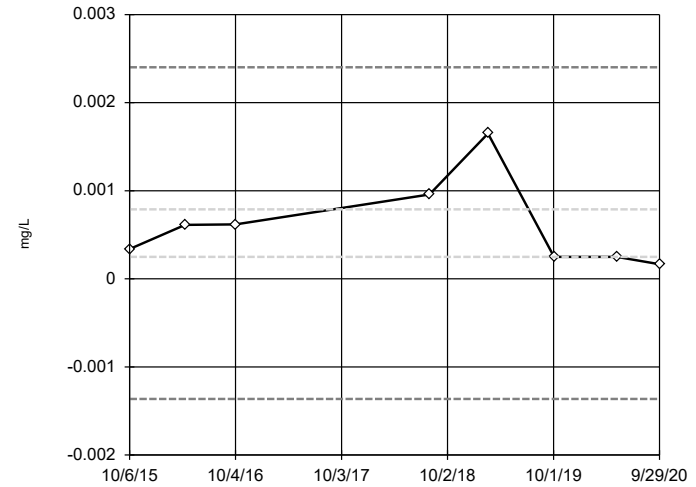


n = 8
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.003587,
 low cutoff = 0.00105,
 based on IQR multiplier of 3.

Constituent: Copper Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

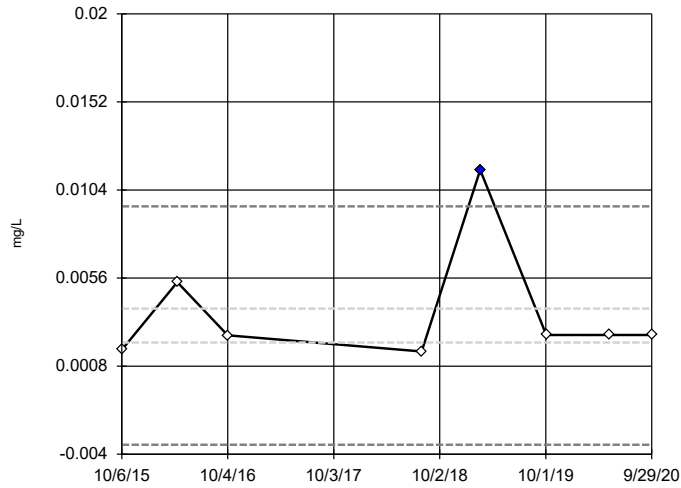


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.002402,
 low cutoff = -0.001364,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

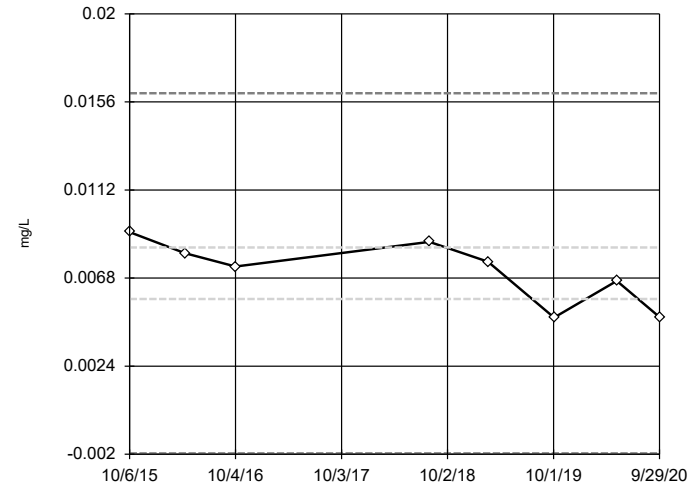


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.009505,
 low cutoff = -0.00348,
 based on IQR multiplier
 of 3.

Constituent: Nickel Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

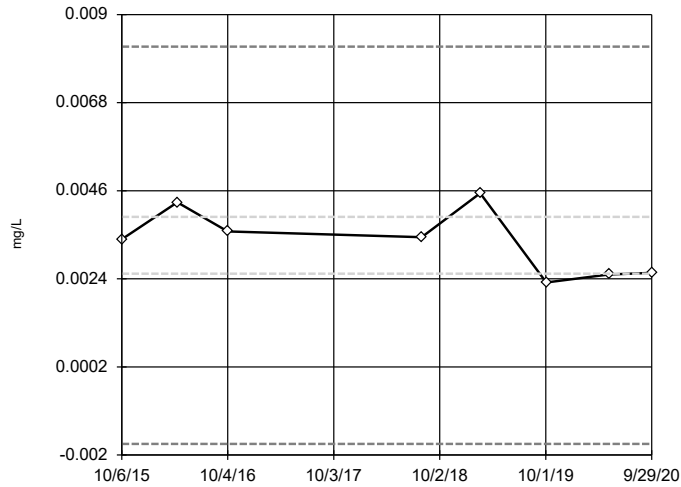


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01604,
 low cutoff = -0.001955,
 based on IQR multiplier
 of 3.

Constituent: Selenium Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

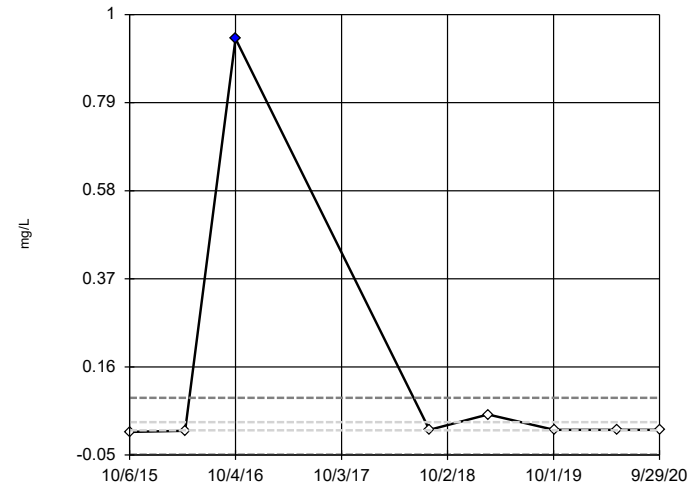


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0082,
 low cutoff = -0.001723,
 based on IQR multiplier
 of 3.

Constituent: Vanadium Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R



n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.08618,
 low cutoff = -0.04899,
 based on IQR multiplier
 of 3.

Constituent: Zinc Analysis Run 10/21/2024 4:44 PM View: 2024SSN - Outliers MW-10R
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

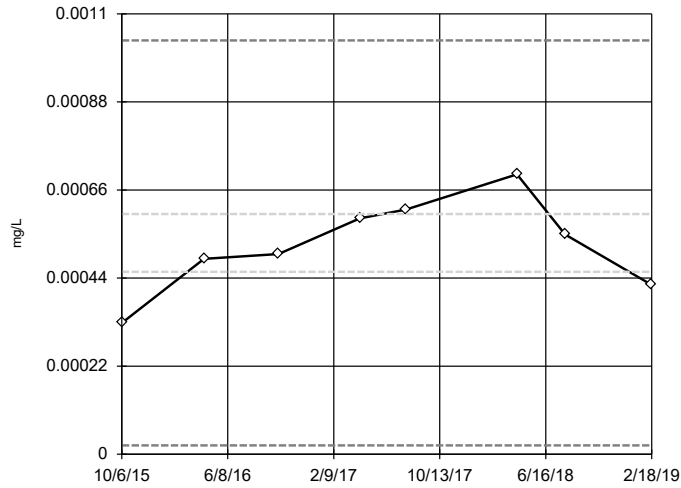
MW-11A BG Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 10/21/2024, 5:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0005234	0.0001156	normal	ShapiroWilk
Arsenic (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.009469	0.002819	normal	ShapiroWilk
Barium (mg/L)	MW-11A	Yes	0.0235	10/6/2015	NP	NaN	8	0.01587	0.003397	normal	ShapiroWilk
Beryllium (mg/L)	MW-11A	n/a	n/a	n/a	NP	NaN	8	0.0004544	0.000129	unknown	ShapiroWilk
Cadmium (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0004131	0.000089	normal	ShapiroWilk
Cobalt (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.002061	0.000597	normal	ShapiroWilk
Lead (mg/L)	MW-11A	Yes	0.00101	10/6/2015	NP	NaN	8	0.0003839	0.0002721	normal	ShapiroWilk
Nickel (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.01255	0.002821	normal	ShapiroWilk
Thallium (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0003555	0.000212	normal	ShapiroWilk
Vanadium (mg/L)	MW-11A	Yes	0.000505	10/6/2015	NP	NaN	8	0.002147	0.0007244	normal	ShapiroWilk
Zinc (mg/L)	MW-11A	n/a	n/a	n/a	NP	NaN	8	0.1556	0.418	unknown	ShapiroWilk

Tukey's Outlier Screening

MW-11A

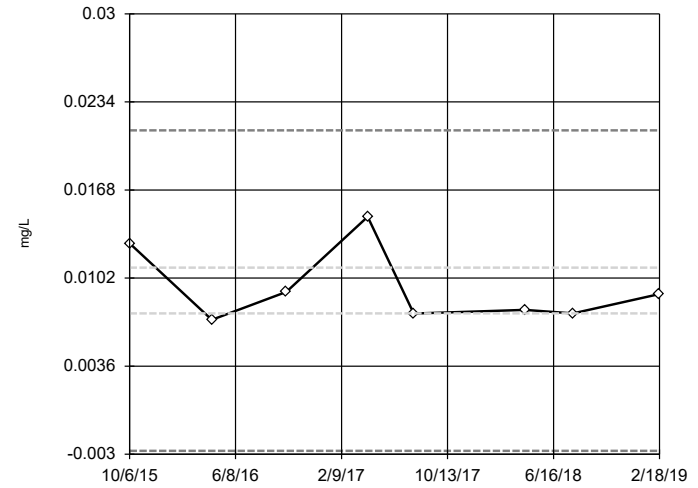


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.001034,
 low cutoff = 0.000022,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

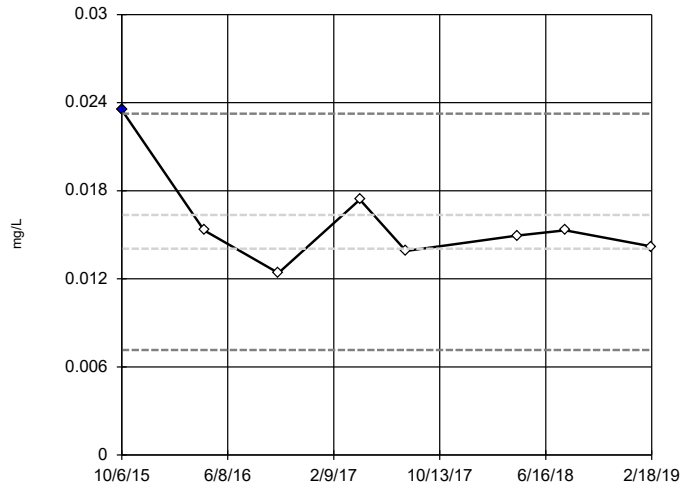


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.02127,
 low cutoff = -0.00274,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

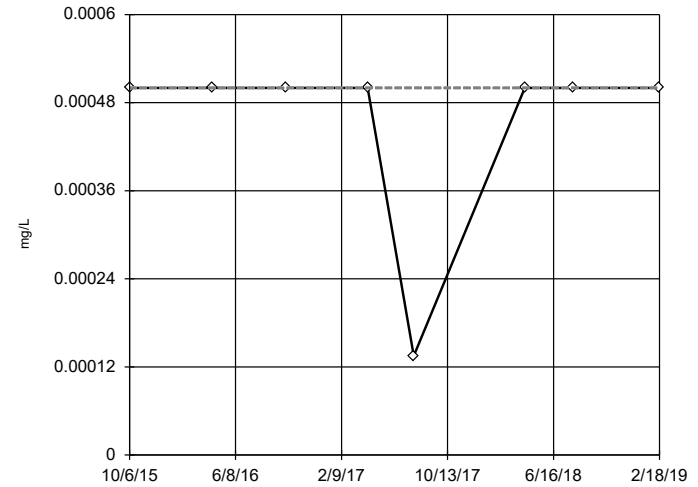


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.02325,
 low cutoff = 0.00715,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

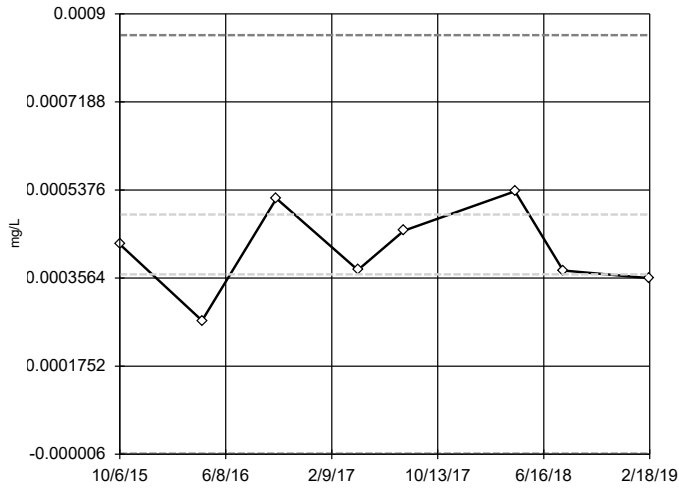


n = 8
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Beryllium Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

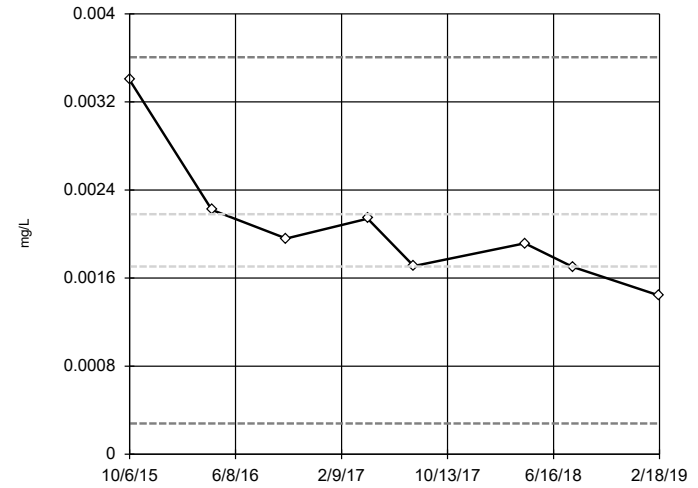


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.000856,
 low cutoff = -0.000005,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

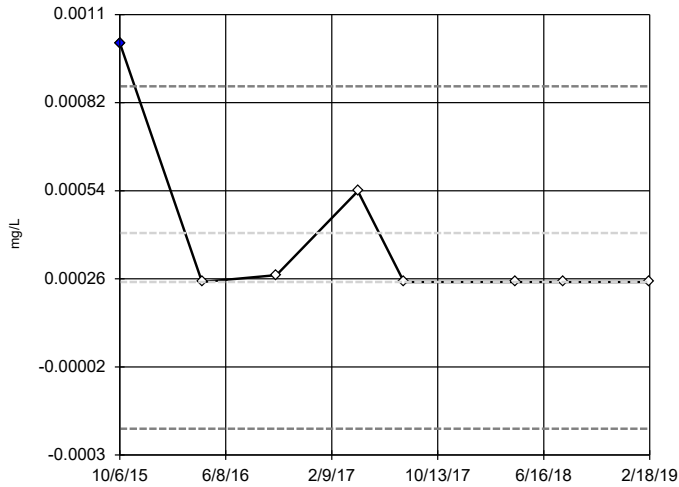


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.003605,
 low cutoff = 0.00028,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

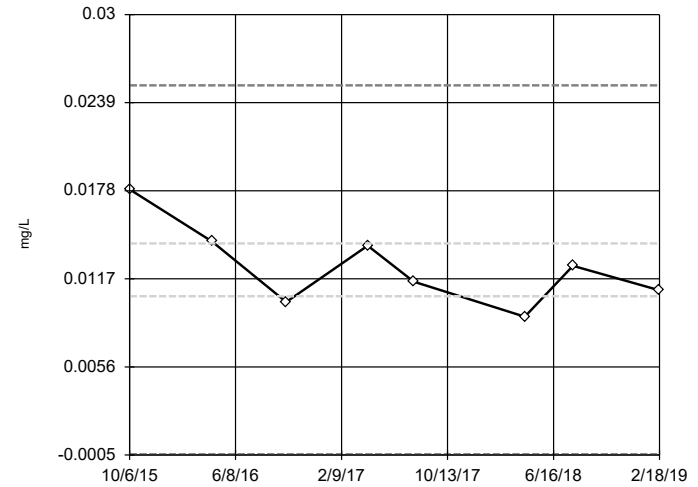


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.000872,
 low cutoff = -0.0002165,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

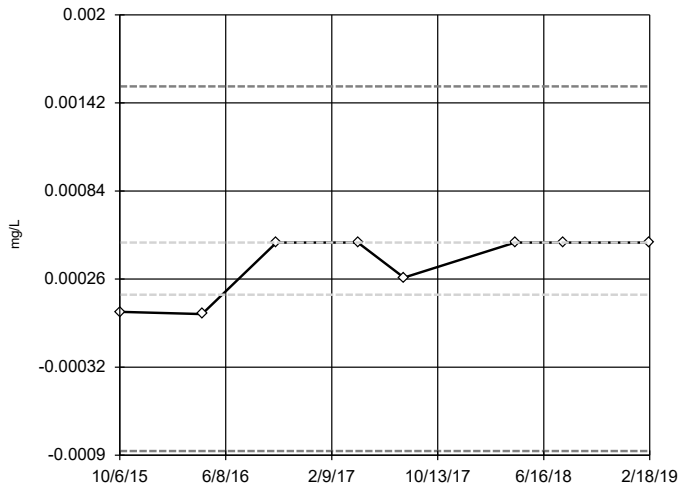
MW-11A



n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0251,
 low cutoff = -0.00045,
 based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

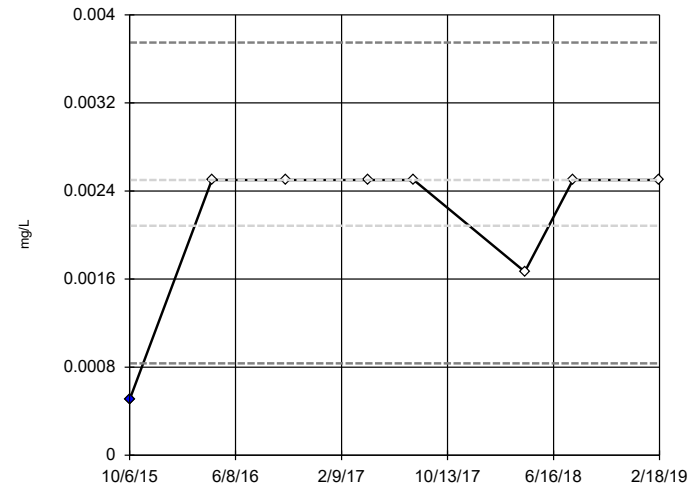
Tukey's Outlier Screening MW-11A



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.001529,
low cutoff = -0.000872,
based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 10/21/2024 5:02 PM View: 2024SSN - Outliers MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

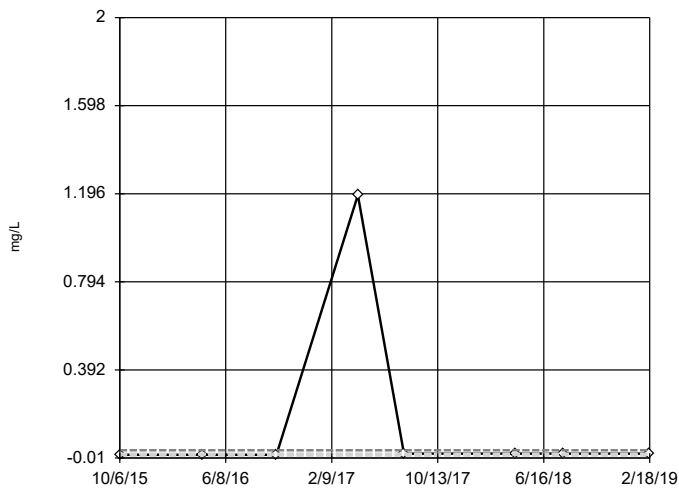
Tukey's Outlier Screening MW-11A



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.003749,
low cutoff = 0.000835,
based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 10/21/2024 5:03 PM View: 2024SSN - Outliers MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening MW-11A



n = 8
No outliers found.
Tukey's method selected by user.
The results were invalidated,
because both the lower and upper
quartiles represent reporting limits.

Constituent: Zinc Analysis Run 10/21/2024 5:03 PM View: 2024SSN - Outliers MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

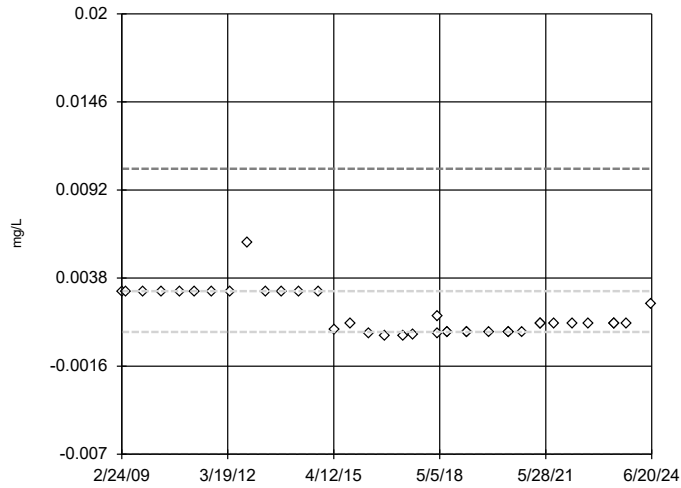
BG Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 10/21/2024, 3:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	38	0.001604	0.001329	unknown	ShapiroWilk
Arsenic (mg/L)	MW-14,MW-1A	Yes	0.00575	n/a w/combined bg	NP	NaN	38	0.001781	0.001184	normal	ShapiroWilk
Barium (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	38	0.4965	0.2474	normal	ShapiroWilk
Cadmium (mg/L)	MW-14,MW-1A	Yes	0.000978,0.00157,0.00358	n/a w/combined bg	NP	NaN	34	0.0003431	0.0006436	normal	ShapiroWilk
Chromium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	34	0.005088	0.003699	unknown	ShapiroWilk
Cobalt (mg/L)	MW-14,MW-1A	Yes	0.00305,0.00288	n/a w/combined bg	NP	NaN	35	0.0006878	0.0006901	normal	ShapiroWilk
Copper (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	38	0.005086	0.003633	unknown	ShapiroWilk
Lead (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	38	0.0009268	0.0008179	unknown	ShapiroWilk
Nickel (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	38	0.01081	0.009984	unknown	ShapiroWilk
Selenium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	34	0.00242	0.0003237	unknown	ShapiroWilk
Thallium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	34	0.0007009	0.0002448	unknown	ShapiroWilk
Vanadium (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	34	0.01021	0.01111	normal	ShapiroWilk
Zinc (mg/L)	MW-14,MW-1A	Yes	0.0479,0.0802	n/a w/combined bg	NP	NaN	38	0.01625	0.01487	normal	ShapiroWilk

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

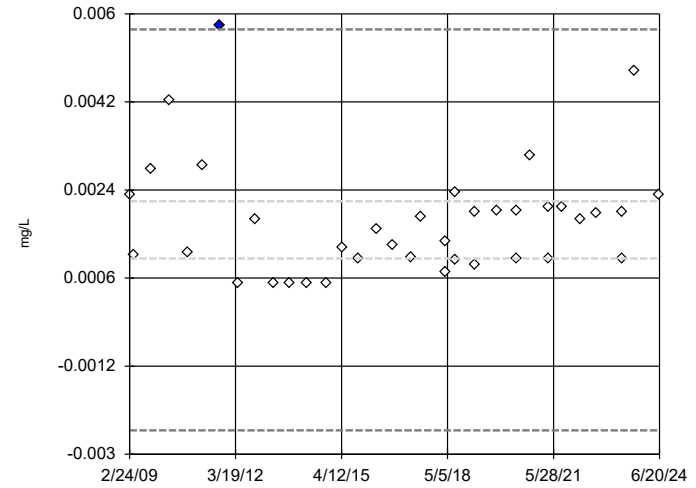


n = 38
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Antimony Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

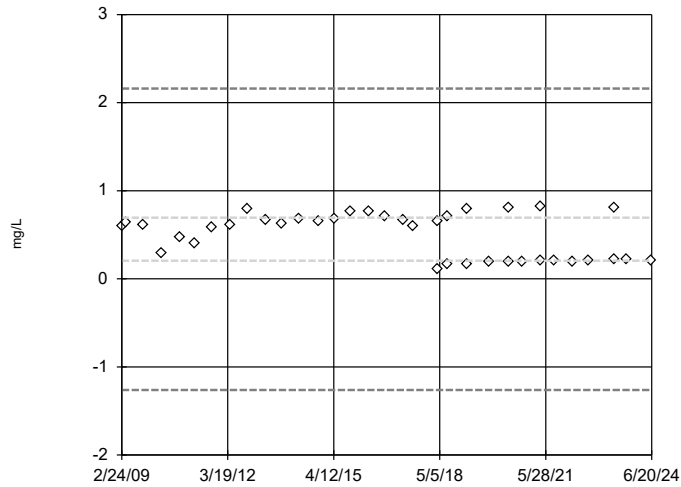


n = 38
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.00568, low cutoff = -0.00251, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

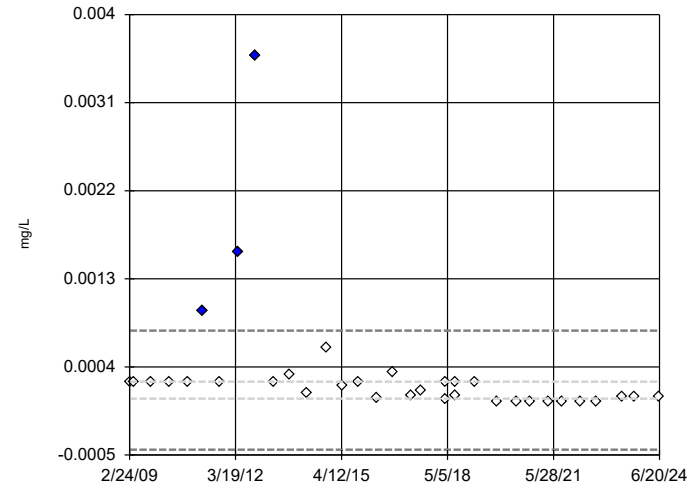


n = 38
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.161, low cutoff = -1.262, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

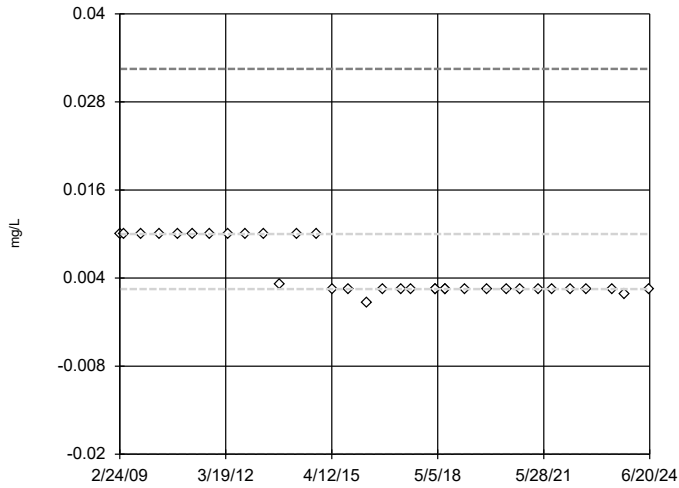


n = 34
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0007713, low cutoff = -0.000445, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

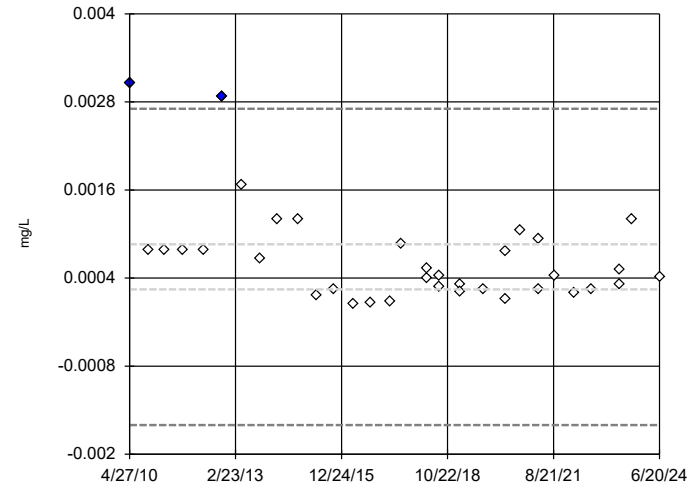


n = 34
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

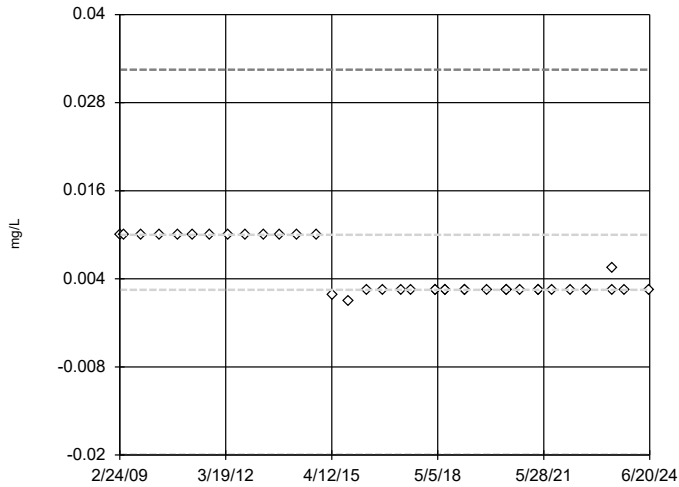


n = 35
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.002707,
 low cutoff = -0.001602,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

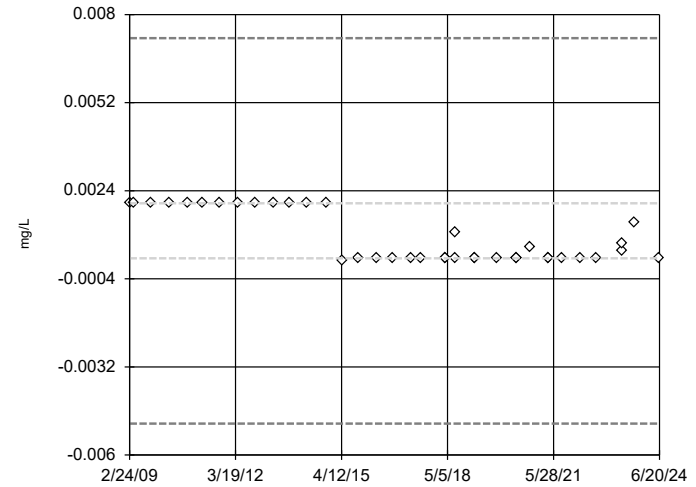


n = 38
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Copper Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

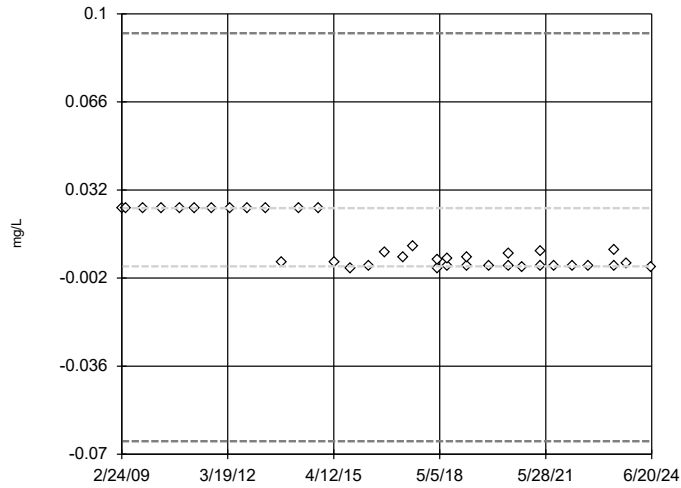


n = 38
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lead Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

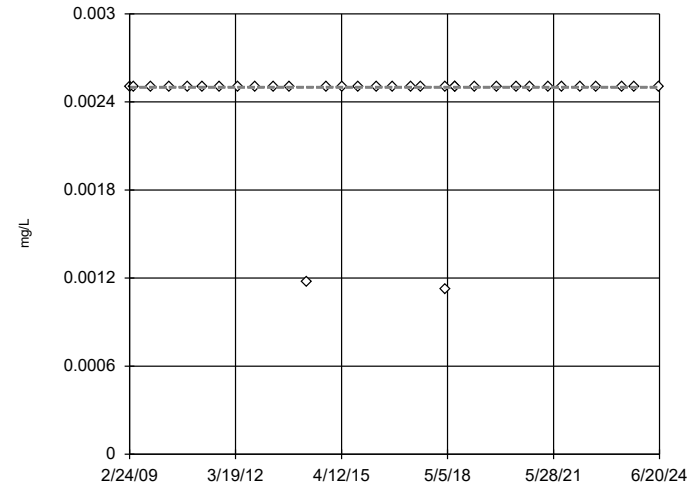


n = 38
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Nickel Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

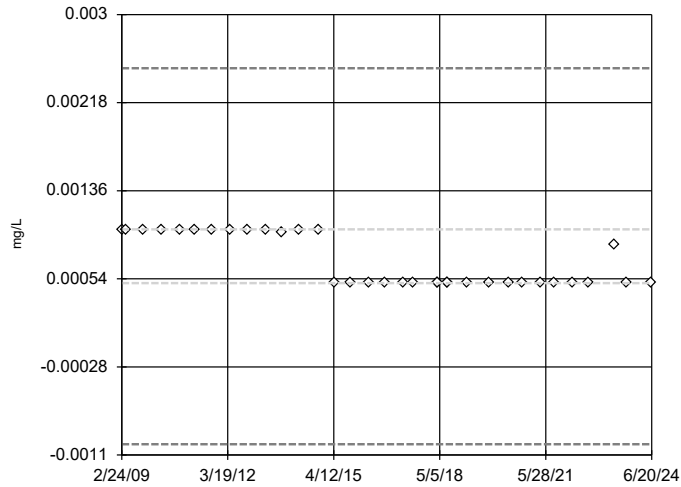


n = 34
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

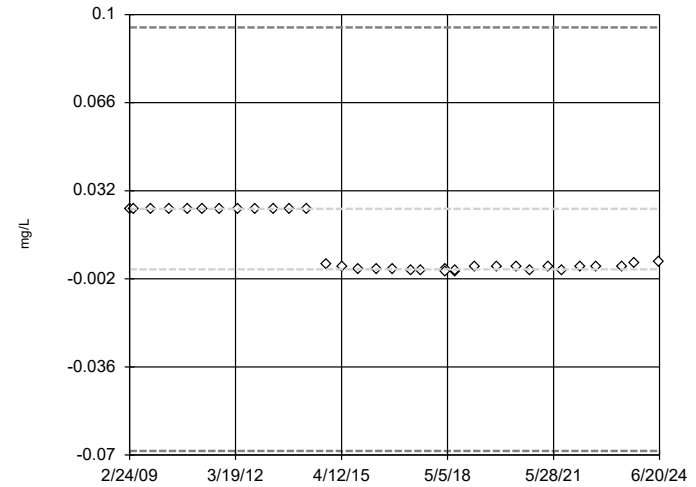


n = 34
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Thallium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

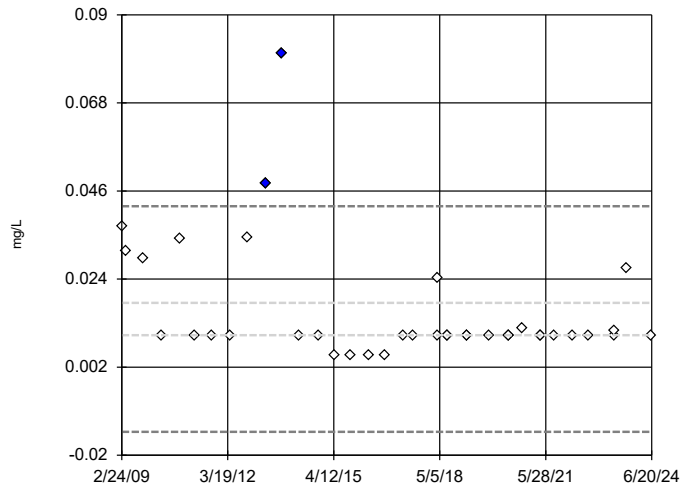


n = 34
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.09507,
 low cutoff = -0.06842,
 based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A




n = 38

Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.0422,
low cutoff = -0.01415,
based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 10/21/2024 3:30 PM View: 2024SSN - BG Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master



Attachment A.3
Intrawell Prediction Limits

MW-10R Intrawell Prediction Limit

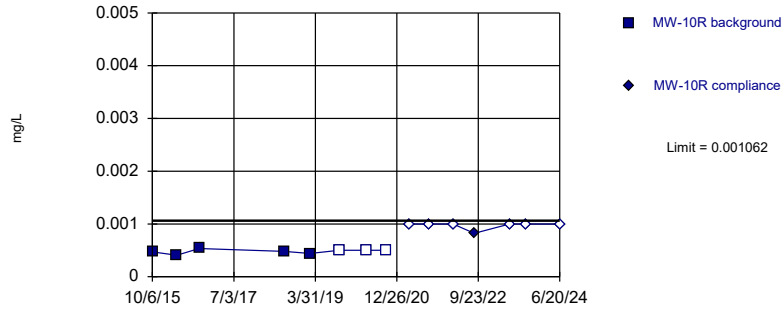
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 10/21/2024, 4:54 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-10R	0.001062	n/a	6/20/2024	0.001ND	No	8	37.5	No	0.0007314	Param Intra 1 of 2
Arsenic (mg/L)	MW-10R	0.004767	n/a	6/20/2024	0.00079J	No	8	25	No	0.0007314	Param Intra 1 of 2
Barium (mg/L)	MW-10R	0.1846	n/a	6/20/2024	0.0584	No	8	0	No	0.0007314	Param Intra 1 of 2
Cadmium (mg/L)	MW-10R	0.007729	n/a	6/20/2024	0.0001ND	No	8	50	x^(1/3)	0.0007314	Param Intra 1 of 2
Chromium (mg/L)	MW-10R	0.0025	n/a	6/20/2024	0.0025ND	No	8	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-10R	0.005643	n/a	6/20/2024	0.00025ND	No	8	0	sqrt(x)	0.0007314	Param Intra 1 of 2
Copper (mg/L)	MW-10R	0.00893	n/a	6/20/2024	0.0025ND	No	8	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-10R	0.002306	n/a	6/20/2024	0.00025ND	No	8	25	No	0.0007314	Param Intra 1 of 2
Nickel (mg/L)	MW-10R	0.05152	n/a	6/20/2024	0.0025ND	No	8	37.5	x^(1/3)	0.0007314	Param Intra 1 of 2
Selenium (mg/L)	MW-10R	0.01218	n/a	6/20/2024	0.00841	No	8	0	No	0.0007314	Param Intra 1 of 2
Vanadium (mg/L)	MW-10R	0.005952	n/a	6/20/2024	0.00223J	No	8	0	No	0.0007314	Param Intra 1 of 2
Zinc (mg/L)	MW-10R	0.9426	n/a	6/20/2024	0.01ND	No	8	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Parametric



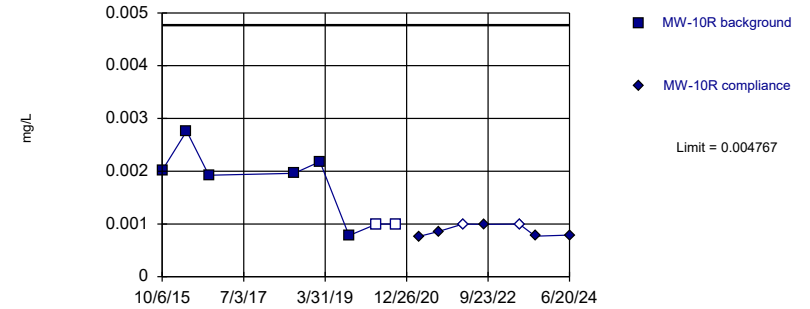
Background Data Summary (after Aitchison's Adjustment): Mean=0.0002914, Std. Dev.=0.000244, n=8, 37.5% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.94, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Antimony Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric



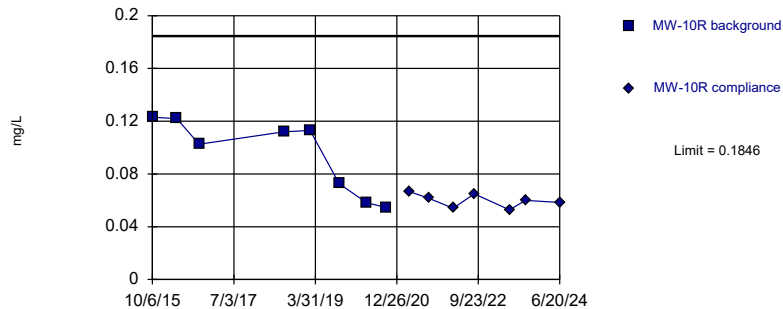
Background Data Summary (after Aitchison's Adjustment): Mean=0.001453, Std. Dev.=0.001049, n=8, 25% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9019, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Arsenic Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric



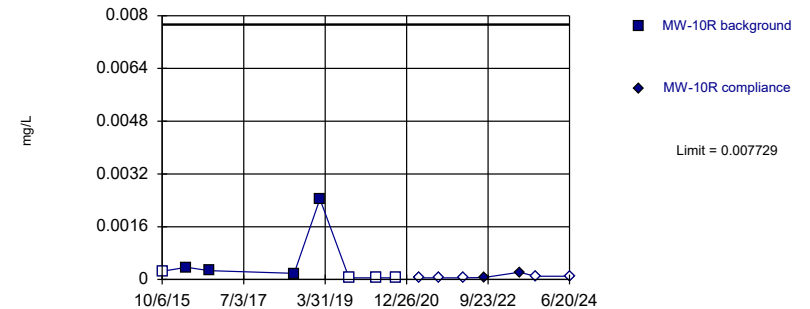
Background Data Summary: Mean=0.09476, Std. Dev.=0.02843, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8428, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Barium Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric

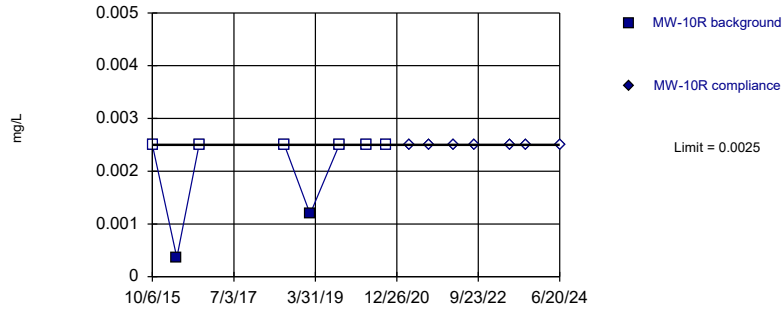


Background Data Summary (based on cube root transformation) (after Aitchison's Adjustment): Mean=0.04097, Std. Dev.=0.04963, n=8, 50% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7784, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Cadmium Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

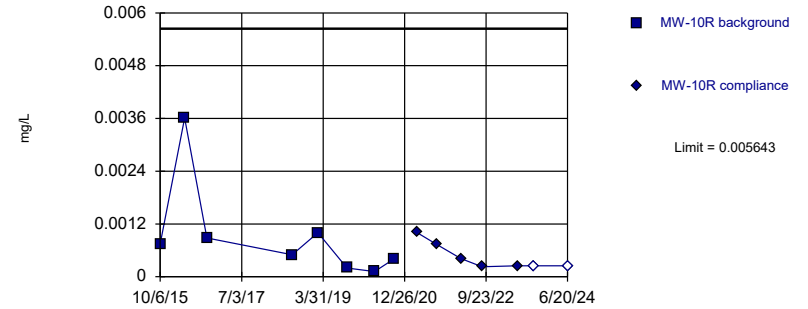


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Chromium Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

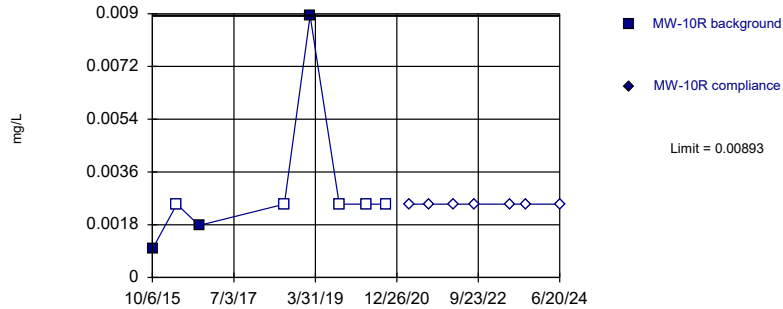


Background Data Summary (based on square root transformation): Mean=0.02696, Std. Dev.=0.01525, n=8. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8592, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Cobalt Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

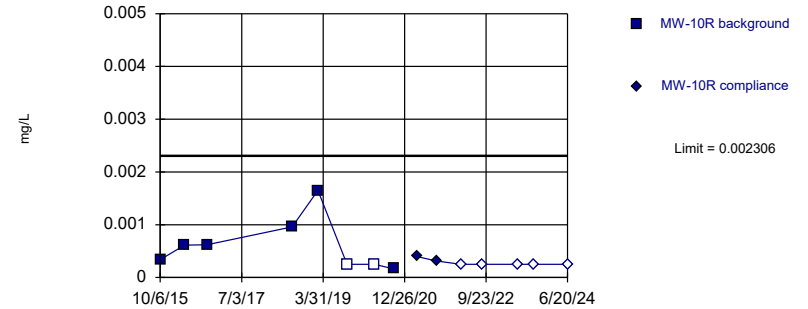


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Copper Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

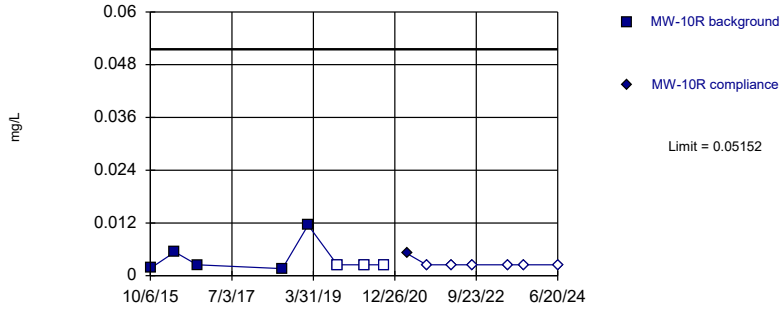


Background Data Summary (after Aitchison's Adjustment): Mean=0.0005427, Std. Dev.=0.0005583, n=8, 25% NDs. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8332, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Lead Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

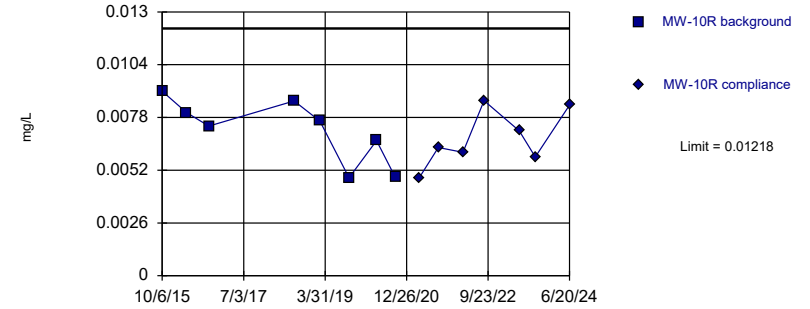


Background Data Summary (based on cube root transformation) (after Aitchison's Adjustment): Mean=0.09655, Std. Dev.=0.08724, n=8, 37.5% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7613, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Nickel Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

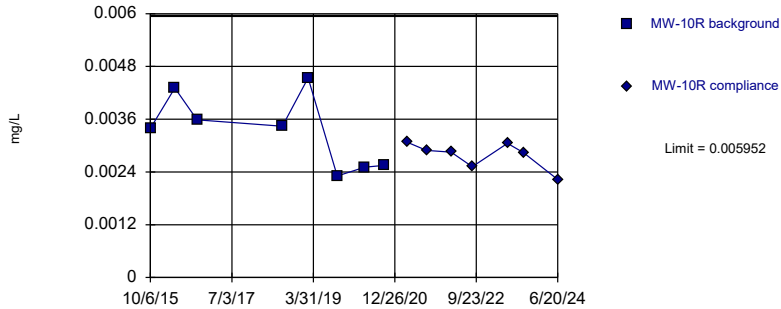


Background Data Summary: Mean=0.007135, Std. Dev.=0.001599, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9057, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Selenium Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

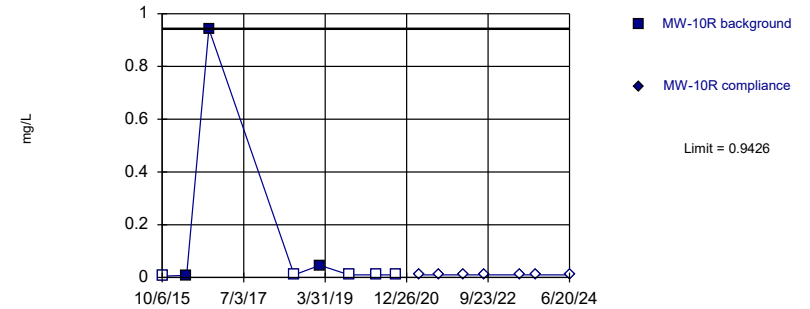


Background Data Summary: Mean=0.003329, Std. Dev.=0.0008304, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9157, critical = 0.749. Kappa = 3.159 (c=12, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007314.

Constituent: Vanadium Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

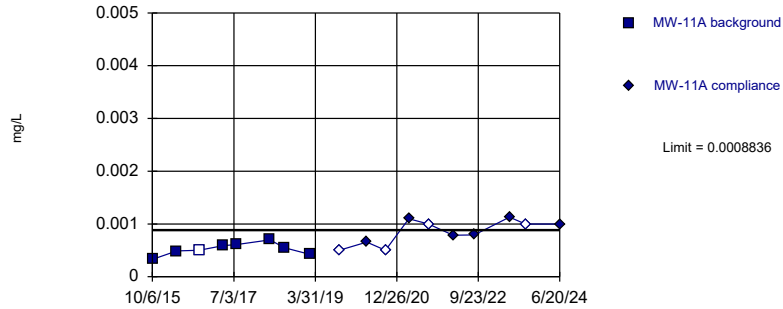
Constituent: Zinc Analysis Run 10/21/2024 4:52 PM View: 2024SSN - IntraPL MW-10R
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

MW-11A Intrawell Prediction Limit

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 10/21/2024, 5:07 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-11A	0.0008836	n/a	6/20/2024	0.001J	No	8	12.5	No	0.0007979	Param Intra 1 of 2
Arsenic (mg/L)	MW-11A	0.01825	n/a	6/20/2024	0.007195	No	8	0	No	0.0007979	Param Intra 1 of 2
Barium (mg/L)	MW-11A	0.02645	n/a	6/20/2024	0.015	No	8	0	No	0.0007979	Param Intra 1 of 2
Beryllium (mg/L)	MW-11A	0.0005	n/a	6/20/2024	0.0005ND	No	8	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-11A	0.0006905	n/a	6/20/2024	0.0005185	No	8	0	No	0.0007979	Param Intra 1 of 2
Cobalt (mg/L)	MW-11A	0.003921	n/a	6/20/2024	0.00215	No	8	0	No	0.0007979	Param Intra 1 of 2
Lead (mg/L)	MW-11A	0.00101	n/a	6/20/2024	0.00025ND	No	8	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-11A	0.02134	n/a	6/20/2024	0.0111	No	8	0	No	0.0007979	Param Intra 1 of 2
Thallium (mg/L)	MW-11A	0.0005	n/a	6/20/2024	0.0005ND	No	8	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-11A	0.0025	n/a	6/20/2024	0.0025ND	No	8	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-11A	1.19	n/a	6/20/2024	0.01315J	No	8	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2

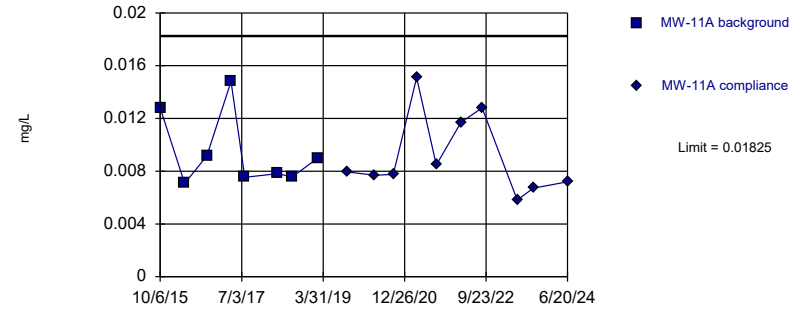
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0005234, Std. Dev.=0.0001156, n=8, 12.5% NDs. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9905, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Antimony Analysis Run 10/21/2024 5:05 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

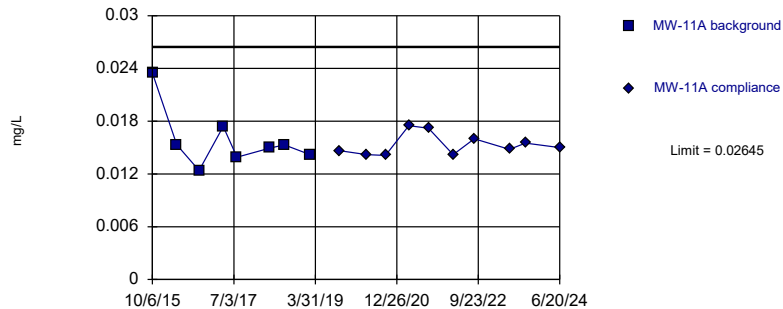
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.009469, Std. Dev.=0.002819, n=8. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8024, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Arsenic Analysis Run 10/21/2024 5:05 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

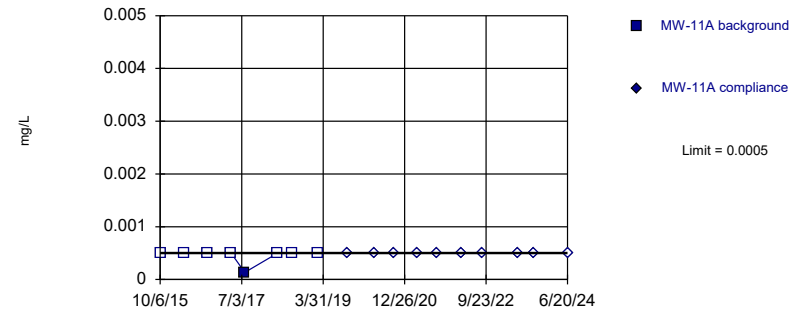
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01587, Std. Dev.=0.003397, n=8. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Barium Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit Prediction Limit
Intrawell Non-parametric

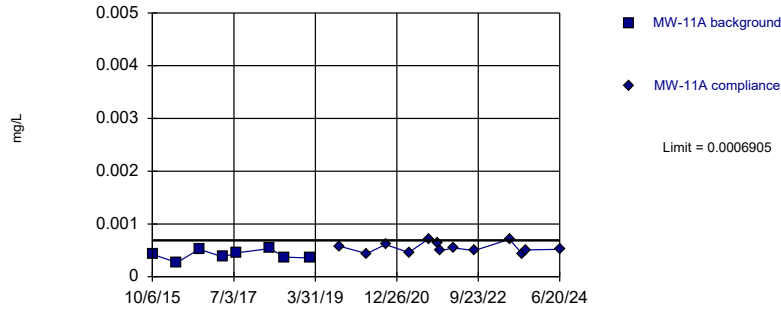


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Beryllium Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Parametric

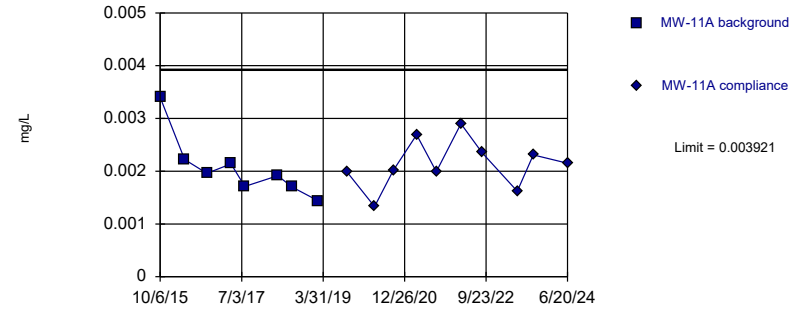


Background Data Summary: Mean=0.0004131, Std. Dev.=0.000089, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Cadmium Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Parametric

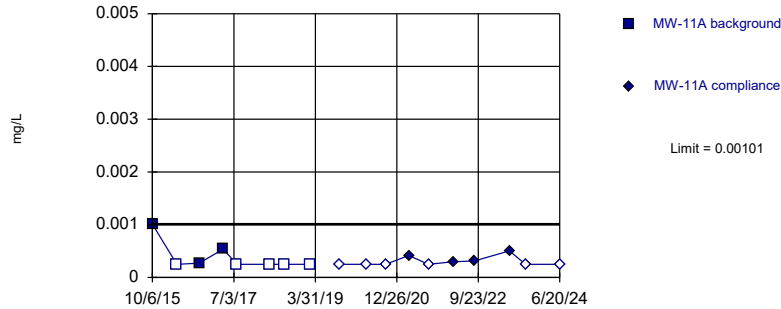


Background Data Summary: Mean=0.002061, Std. Dev.=0.000597, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8175, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Cobalt Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Non-parametric

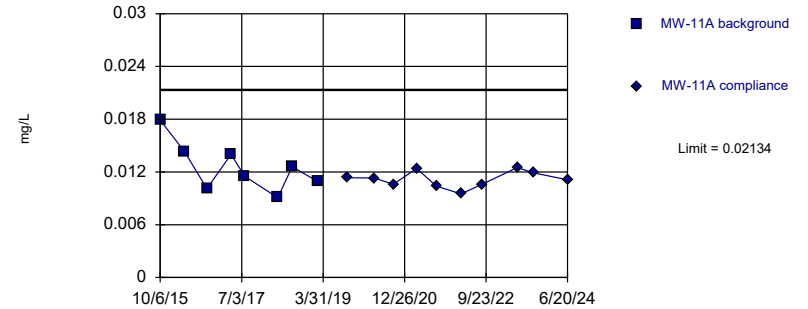


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Lead Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Parametric

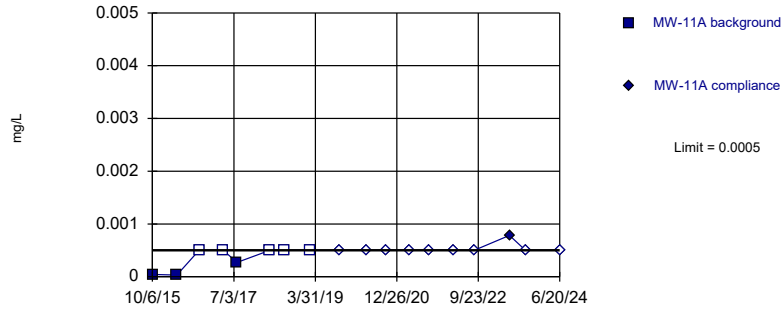


Background Data Summary: Mean=0.01255, Std. Dev.=0.002821, n=8. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.749. Kappa = 3.116 (c=11, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0007979.

Constituent: Nickel Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
 Intrawell Non-parametric

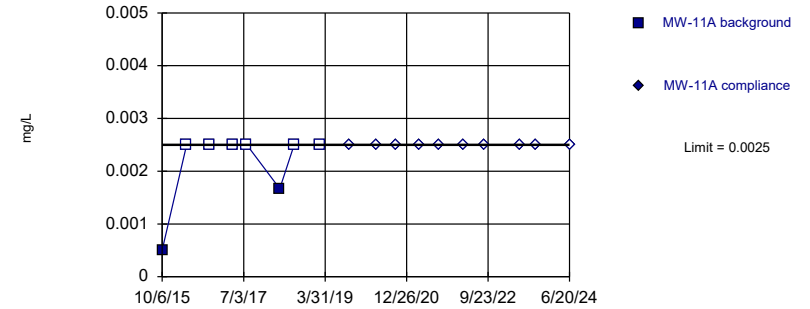


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Thallium Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
 Intrawell Non-parametric

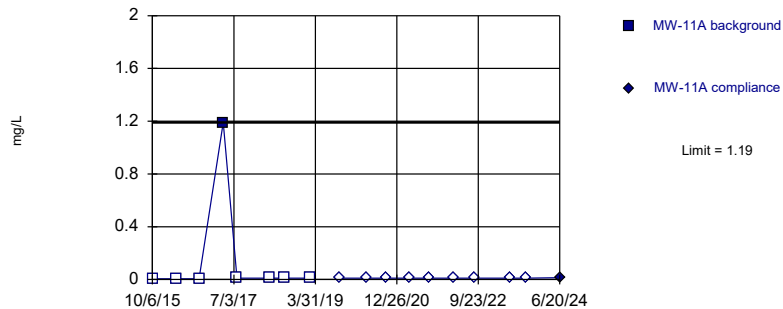


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Vanadium Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master


Within Limit

Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality; data were not deseasonalized.

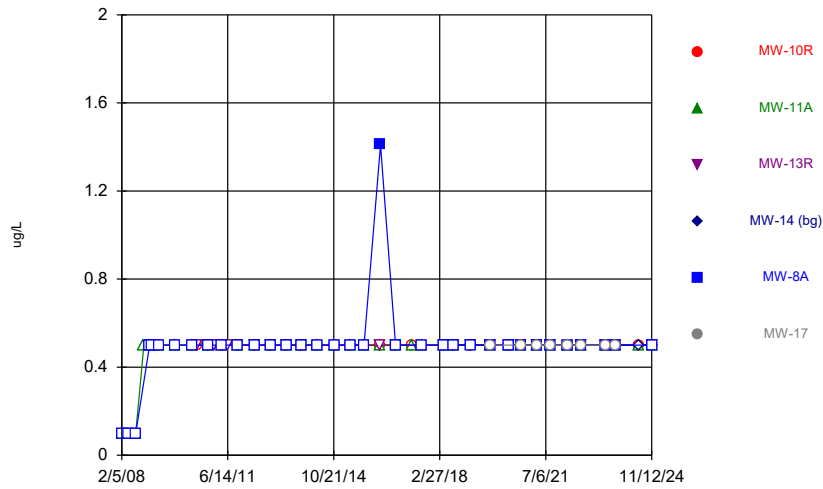
Constituent: Zinc Analysis Run 10/21/2024 5:06 PM View: 2024SSN - IntraPL MW-11A
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master



Attachment B
Fall 2024 Statistical Evaluation Output

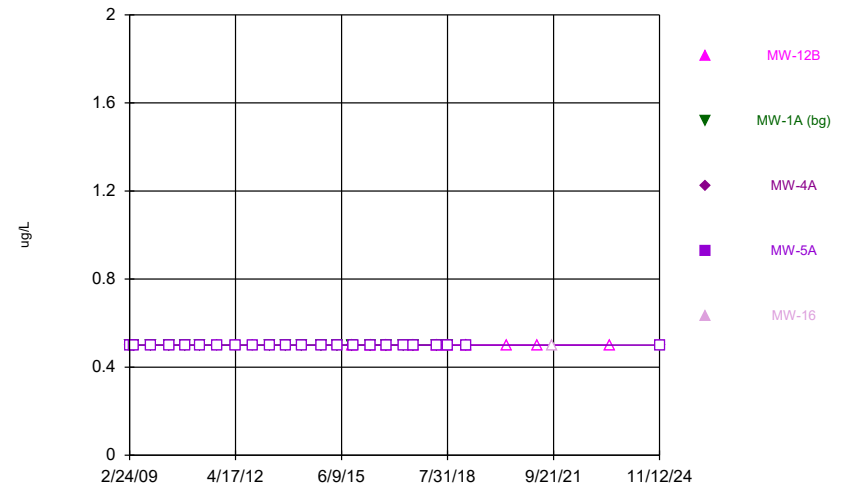
Attachment B.1
Time Series Plots

Time Series



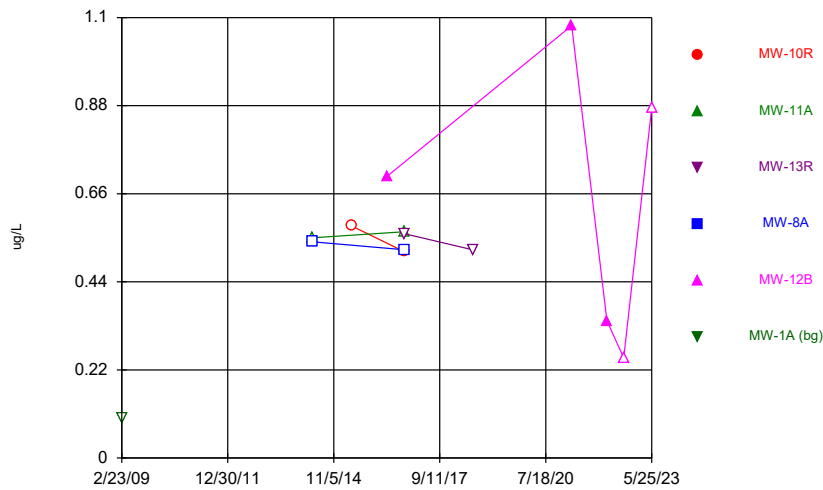
Constituent: 1,2-Dichloroethane Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



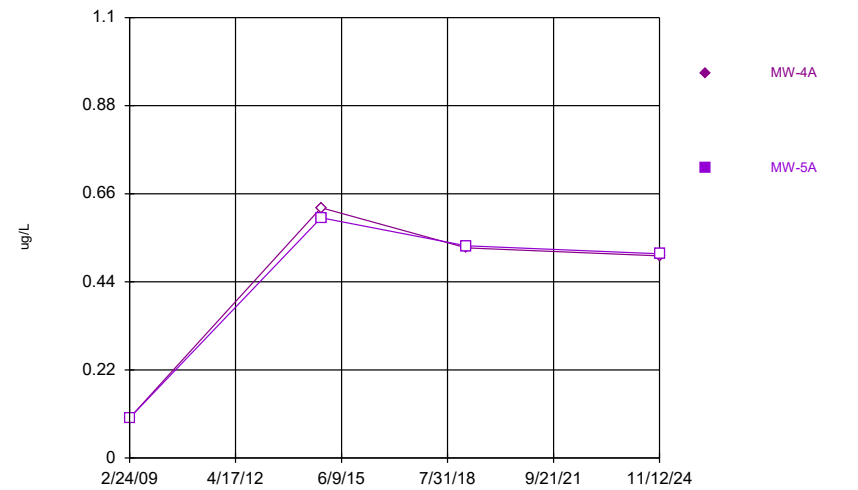
Constituent: 1,2-Dichloroethane Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



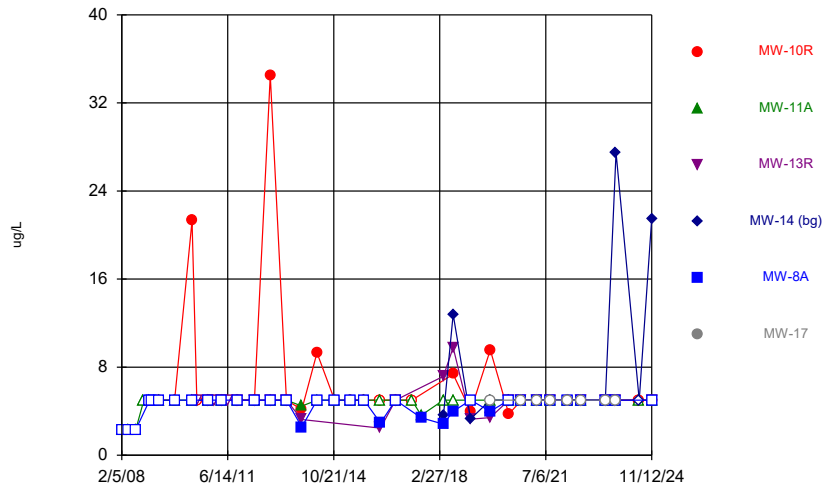
Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



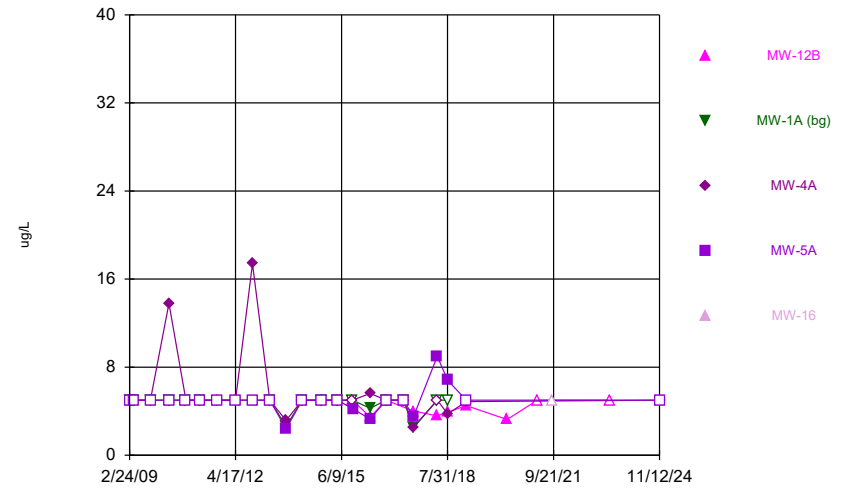
Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



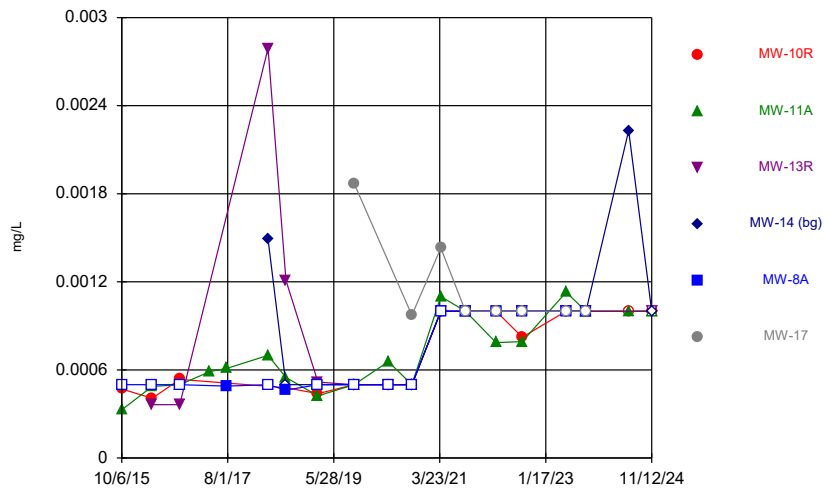
Constituent: Acetone Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



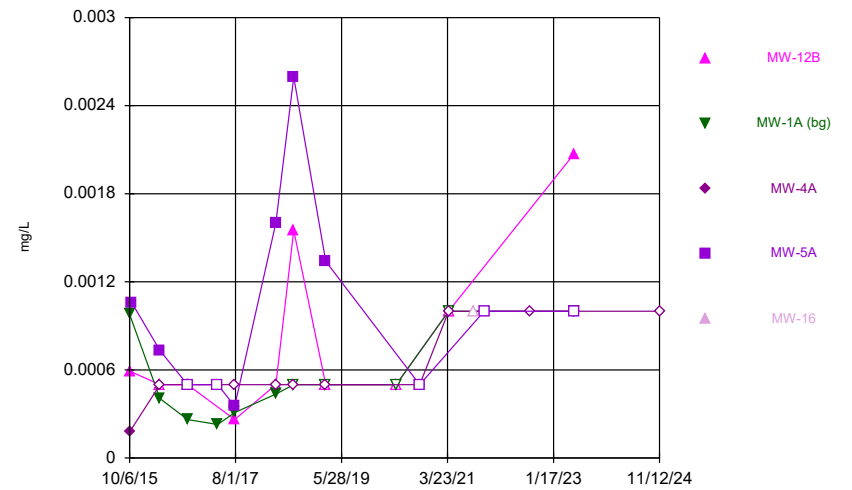
Constituent: Acetone Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



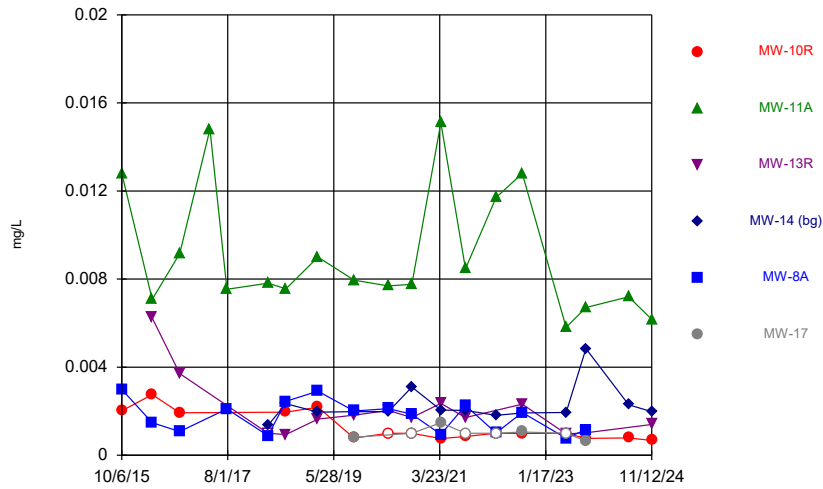
Constituent: Antimony Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



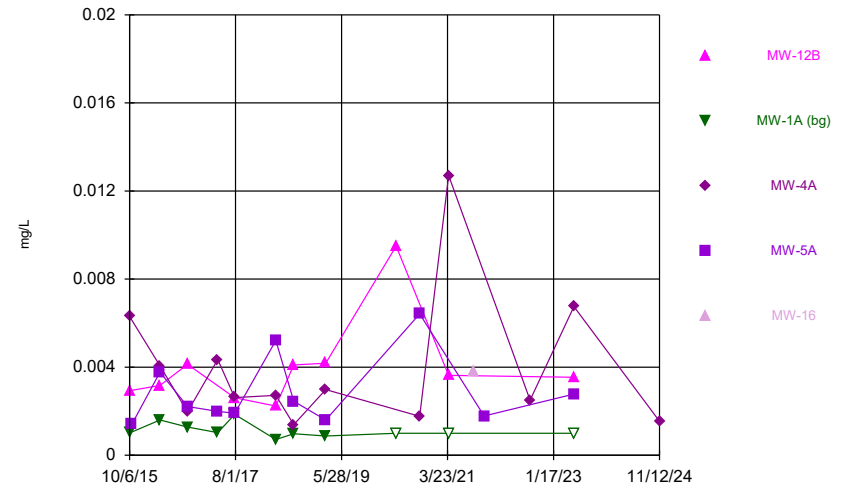
Constituent: Antimony Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



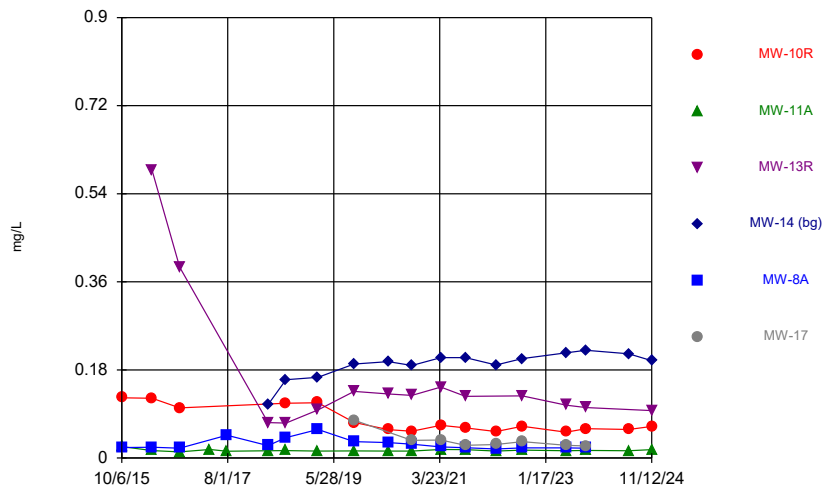
Constituent: Arsenic Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



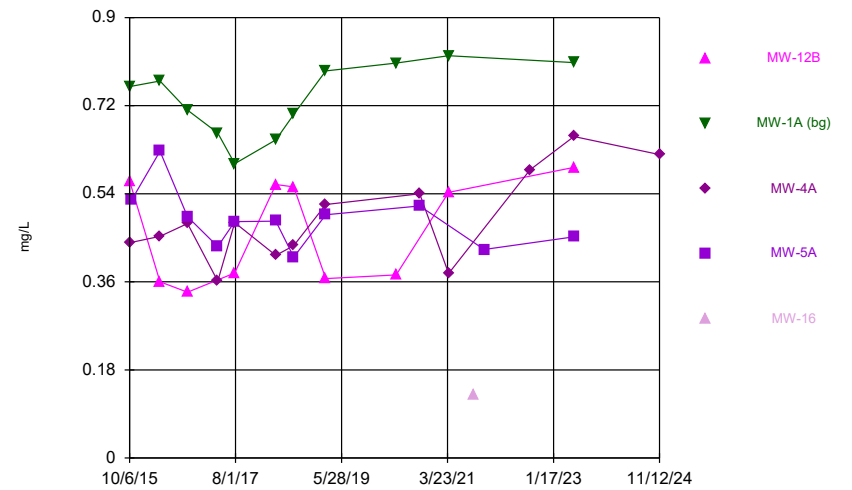
Constituent: Arsenic Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



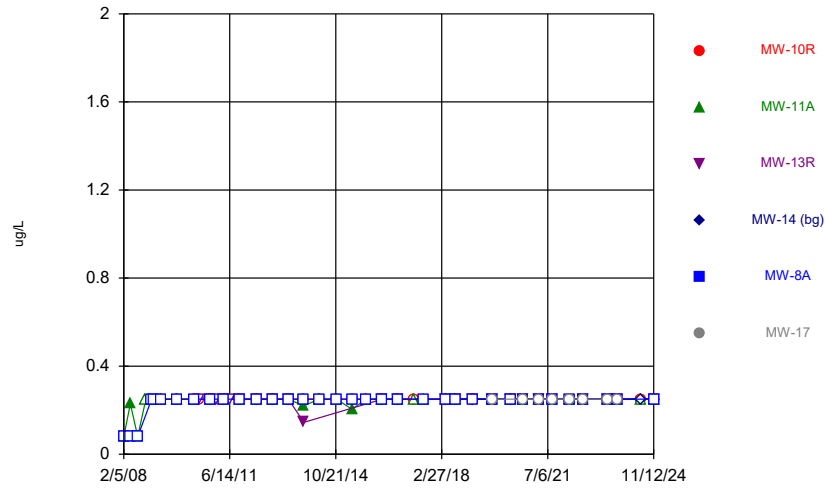
Constituent: Barium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



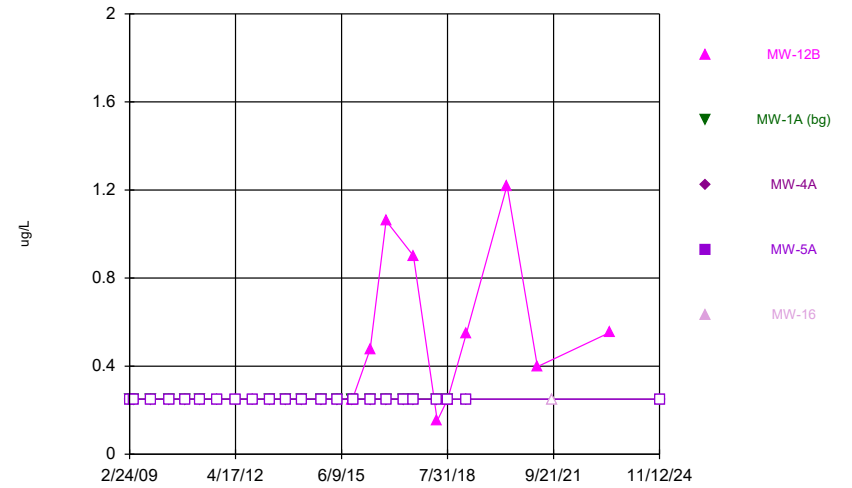
Constituent: Barium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



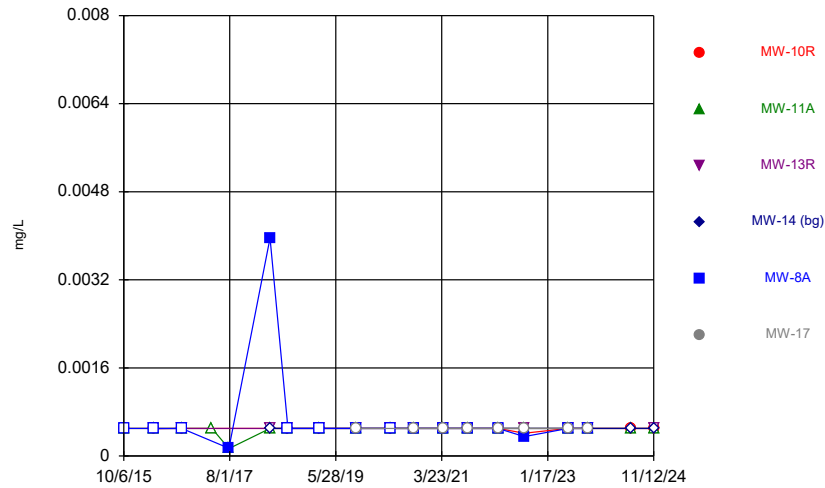
Constituent: Benzene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



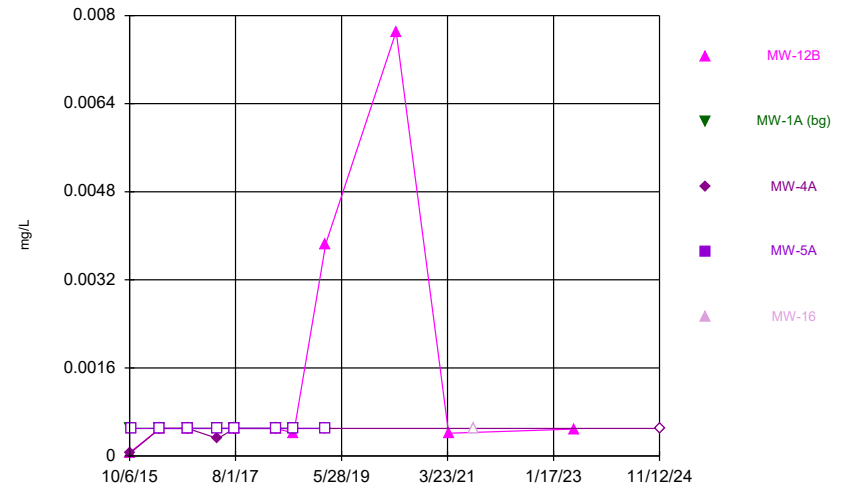
Constituent: Benzene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



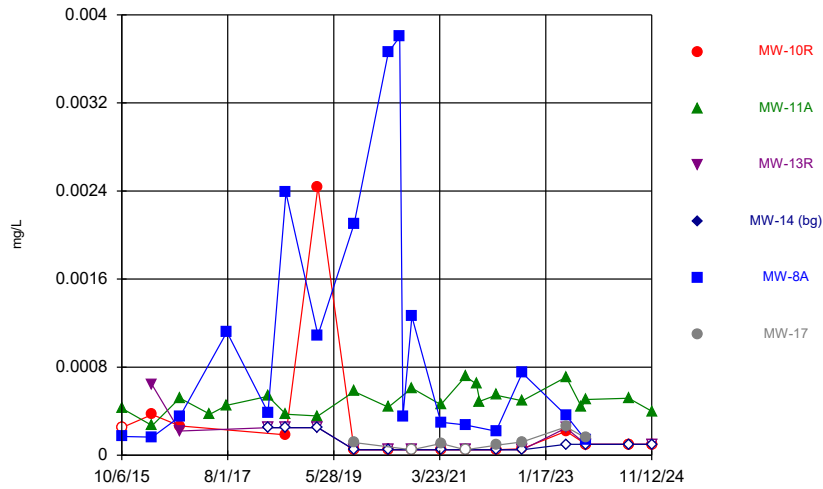
Constituent: Beryllium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



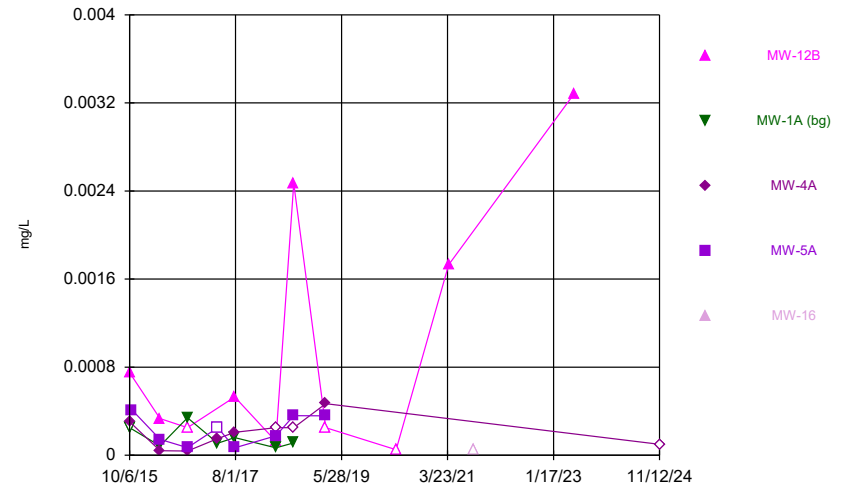
Constituent: Beryllium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



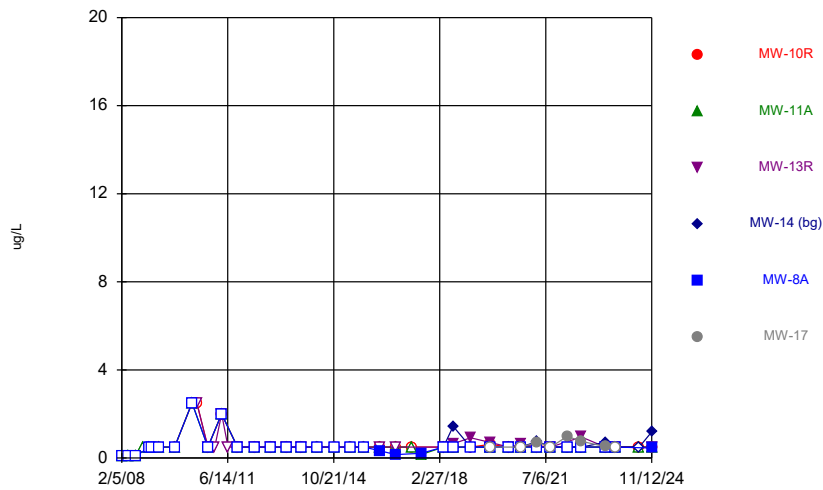
Constituent: Cadmium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



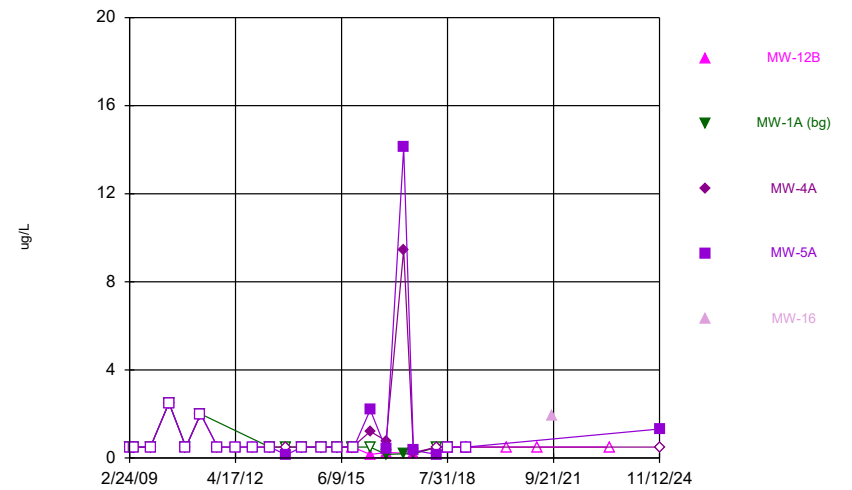
Constituent: Cadmium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



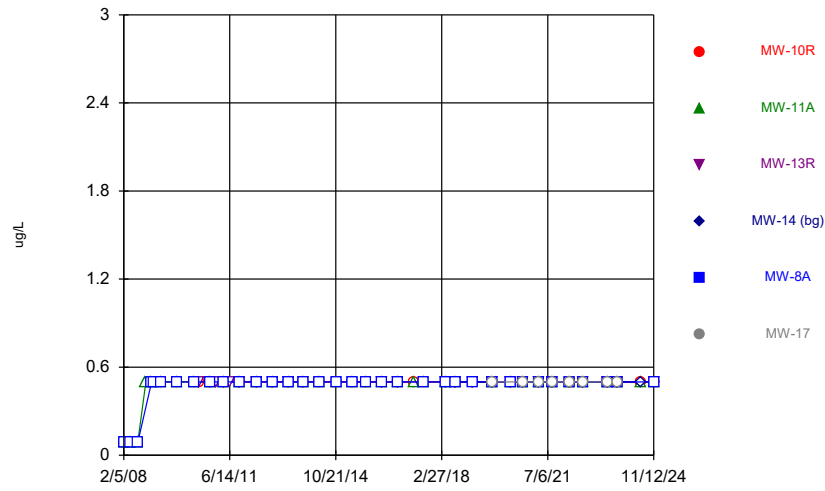
Constituent: Carbon disulfide Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



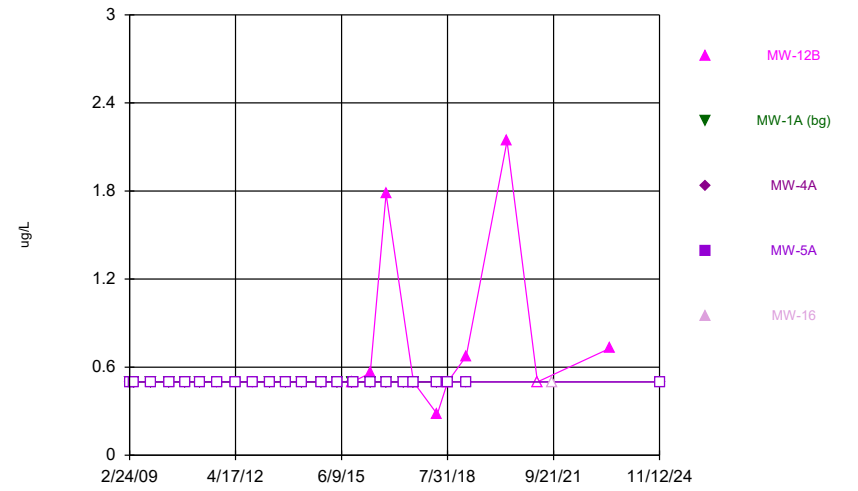
Constituent: Carbon disulfide Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



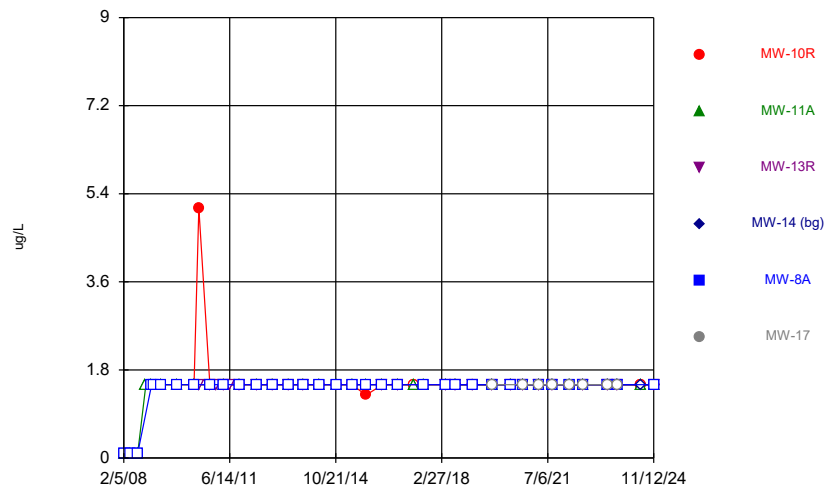
Constituent: Chlorobenzene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



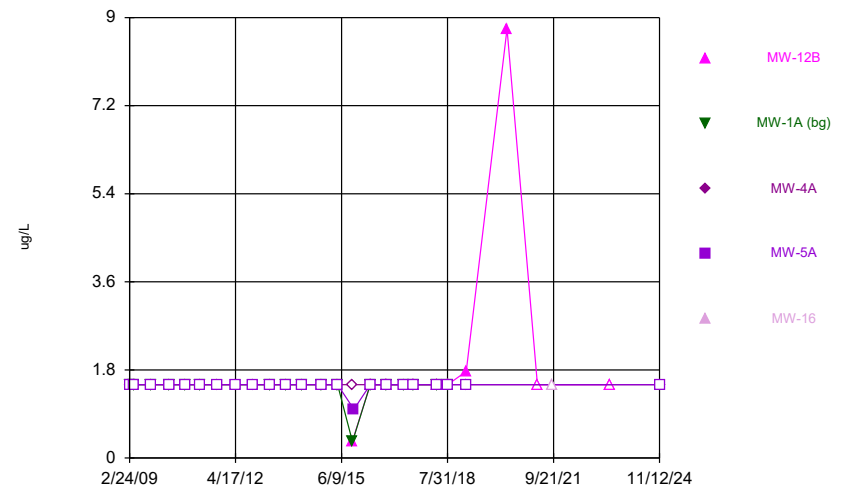
Constituent: Chlorobenzene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



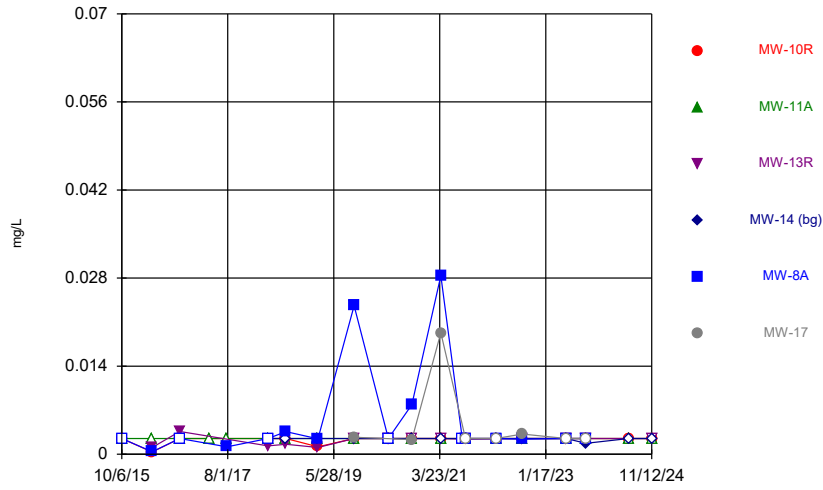
Constituent: Chloromethane Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



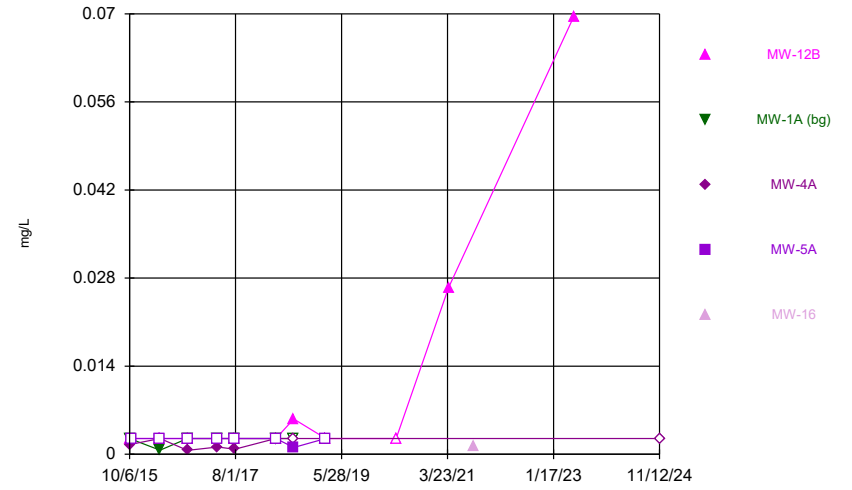
Constituent: Chloromethane Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



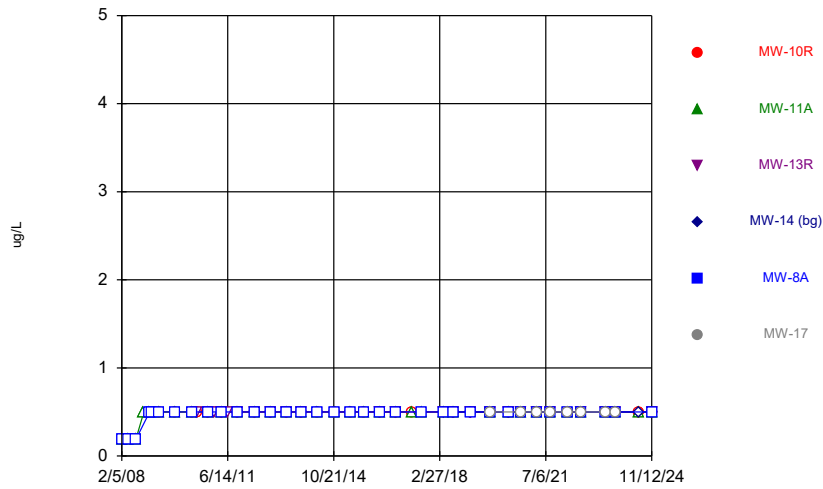
Constituent: Chromium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



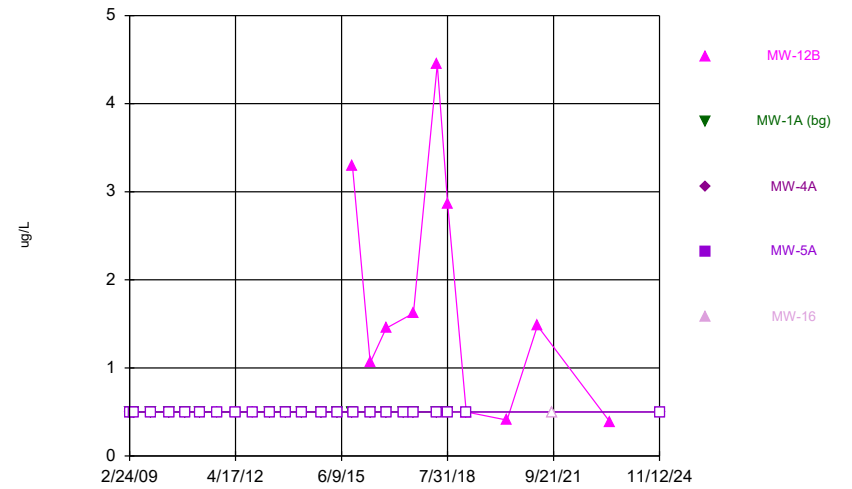
Constituent: Chromium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



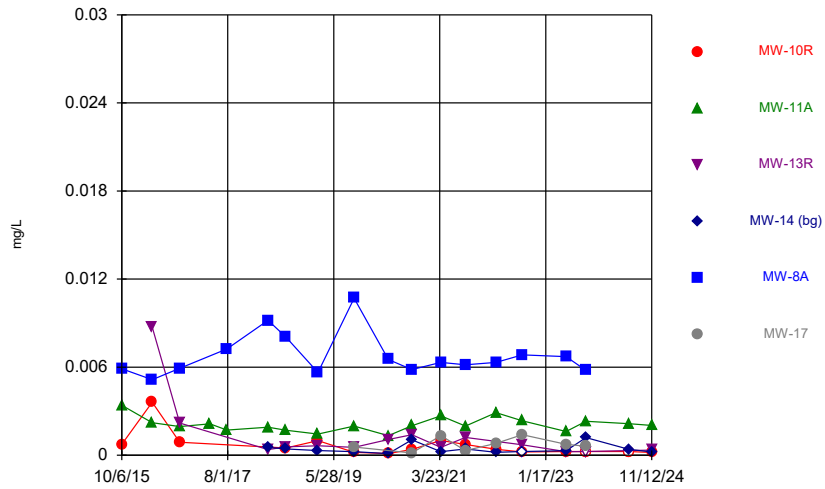
Constituent: cis-1,2-Dichloroethene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



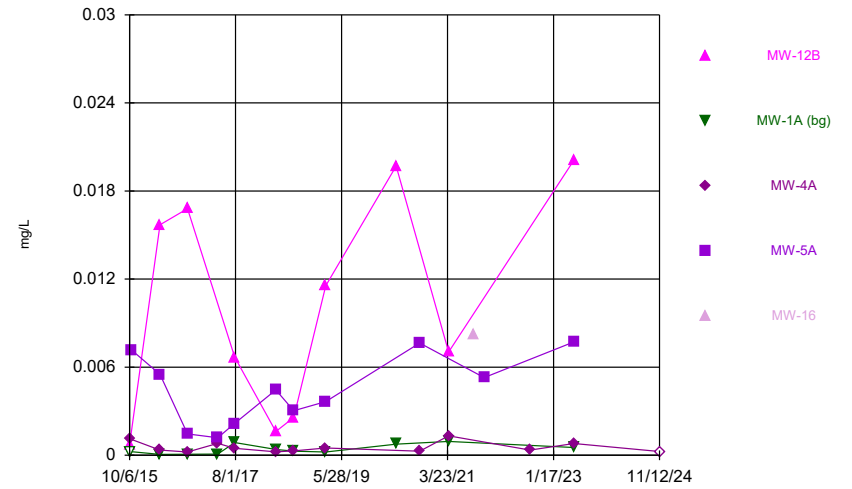
Constituent: cis-1,2-Dichloroethene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



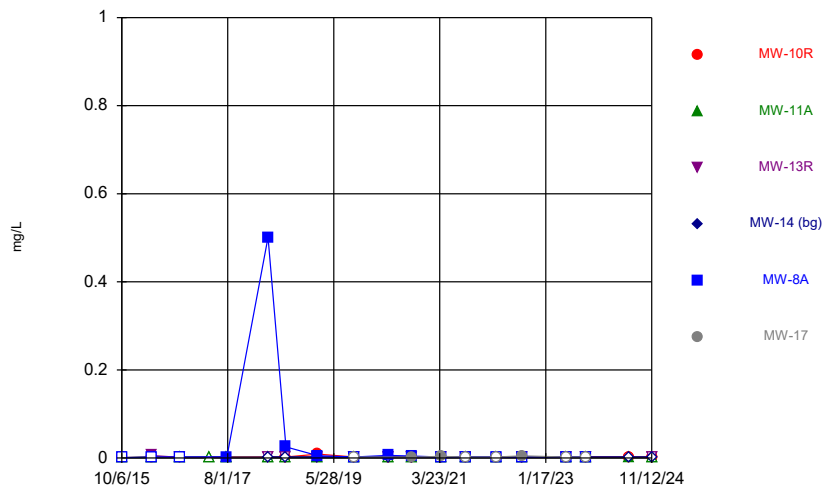
Constituent: Cobalt Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



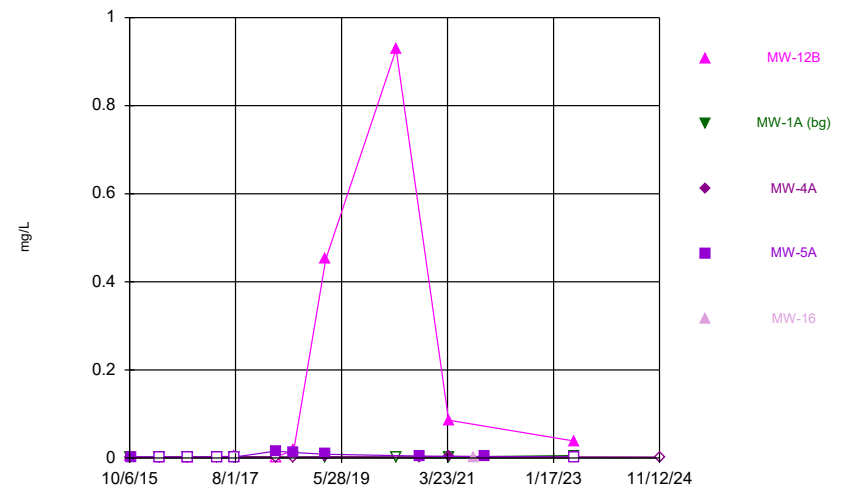
Constituent: Cobalt Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



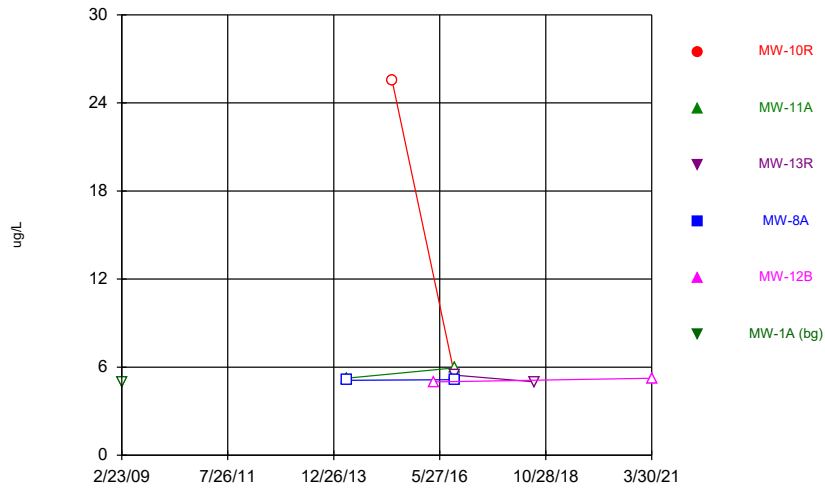
Constituent: Copper Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



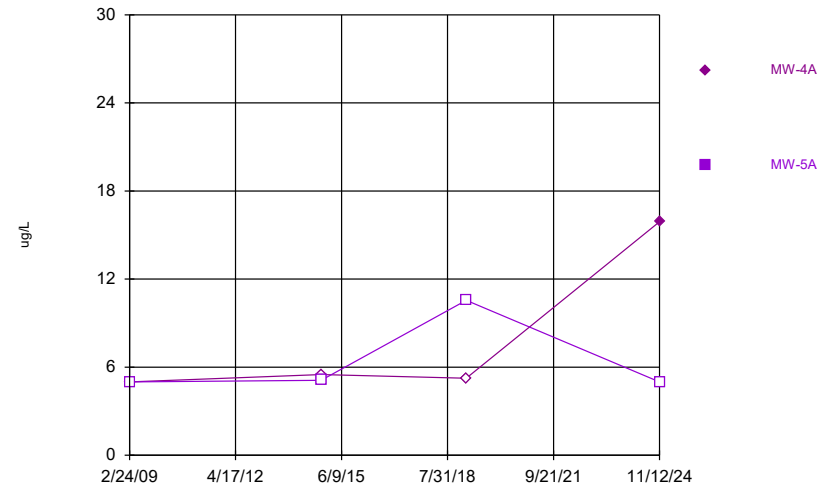
Constituent: Copper Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



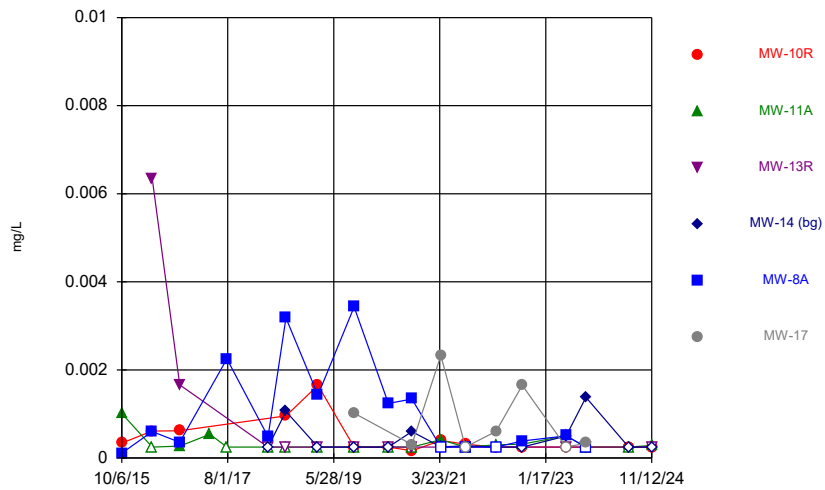
Constituent: Di-n-butyl phthalate Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



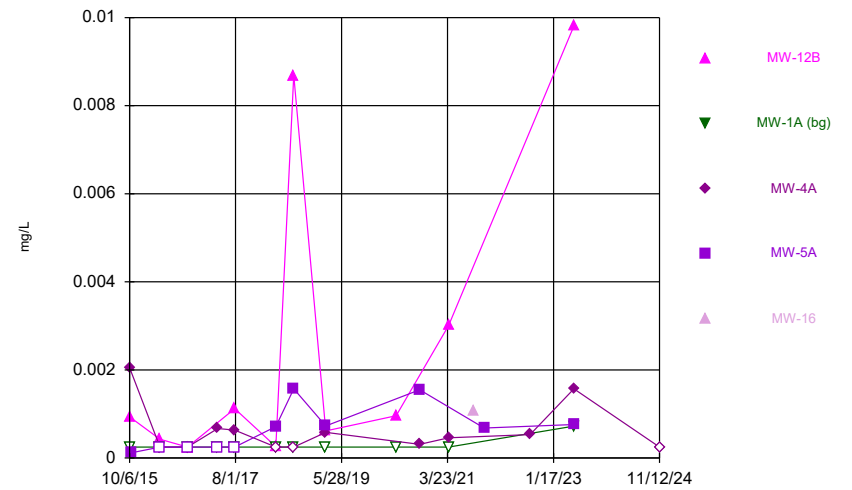
Constituent: Di-n-butyl phthalate Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



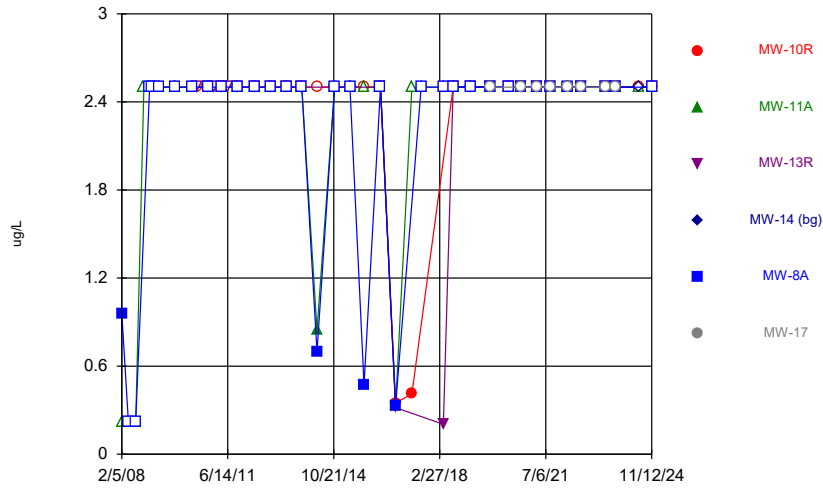
Constituent: Lead Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



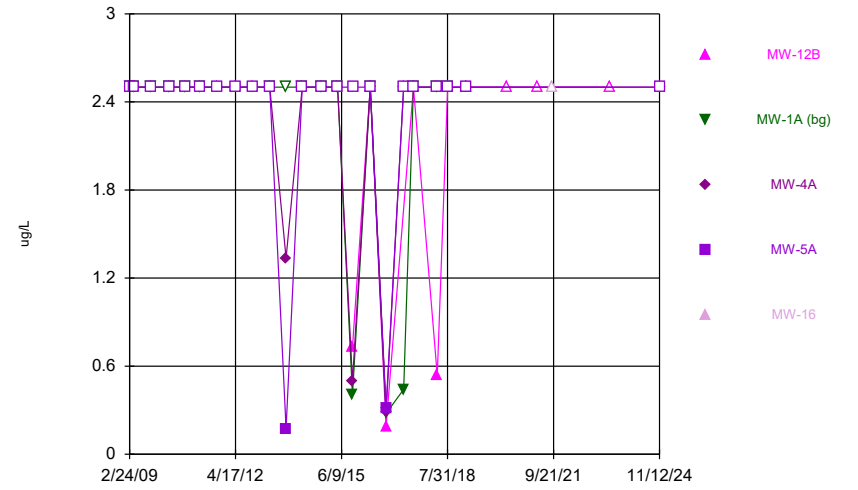
Constituent: Lead Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



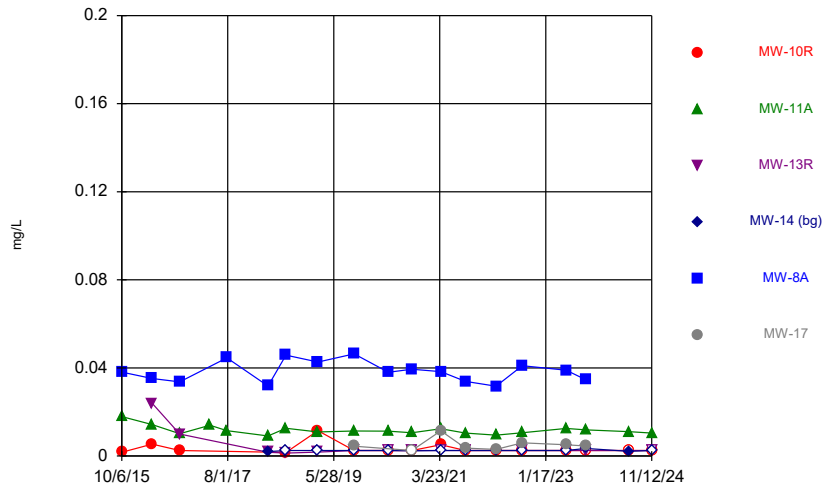
Constituent: Methylene Chloride Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



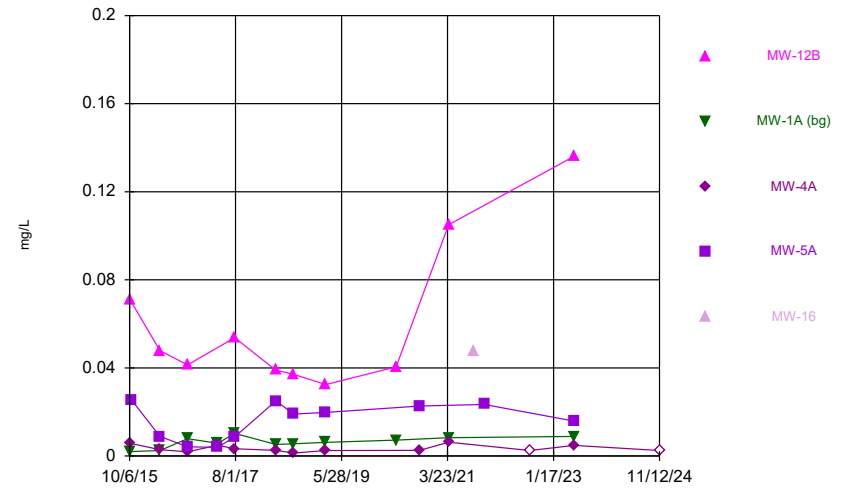
Constituent: Methylene Chloride Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



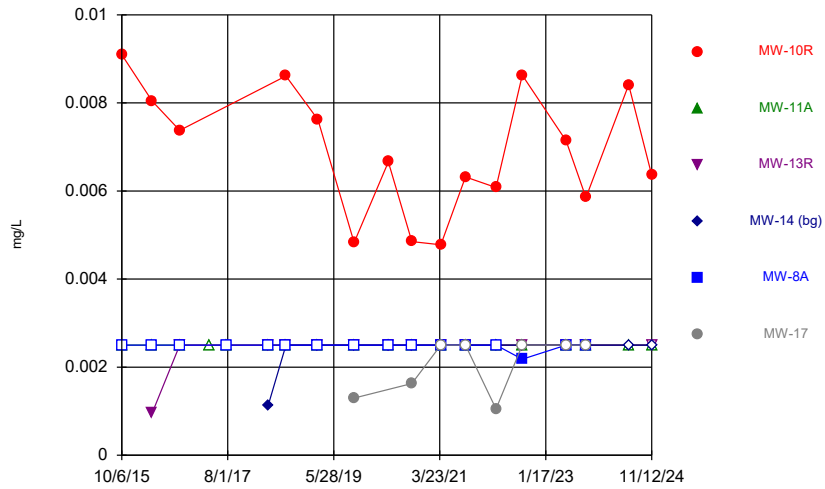
Constituent: Nickel Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



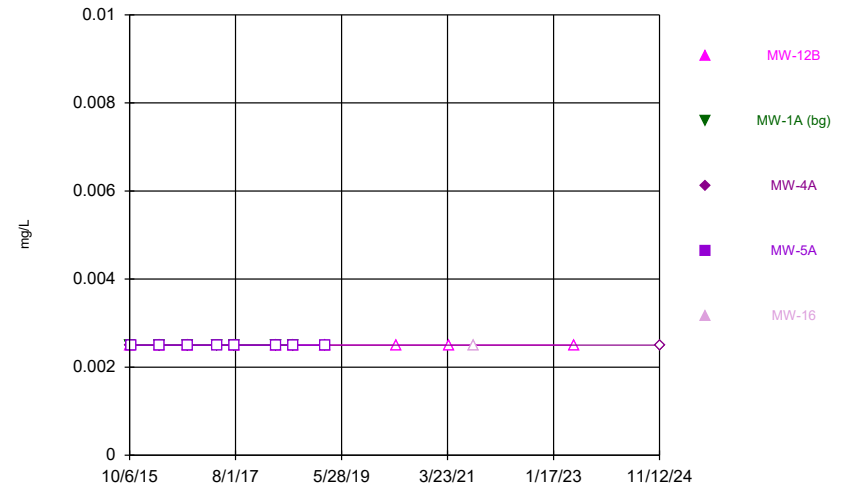
Constituent: Nickel Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



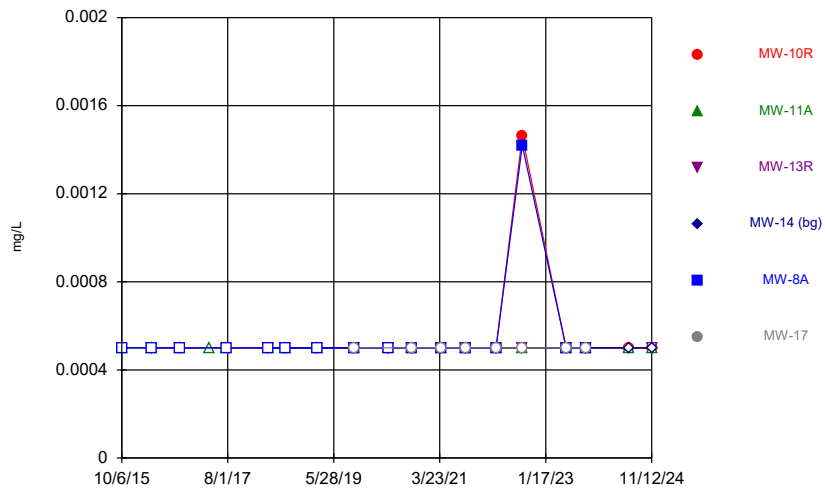
Constituent: Selenium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



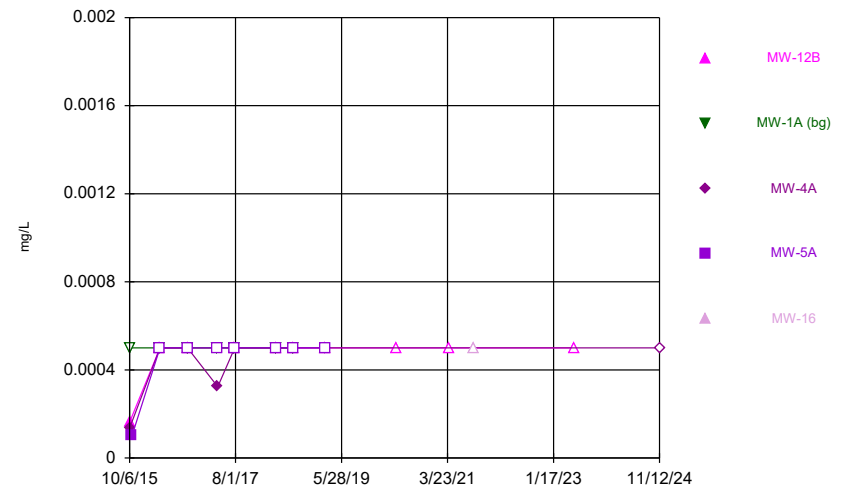
Constituent: Selenium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



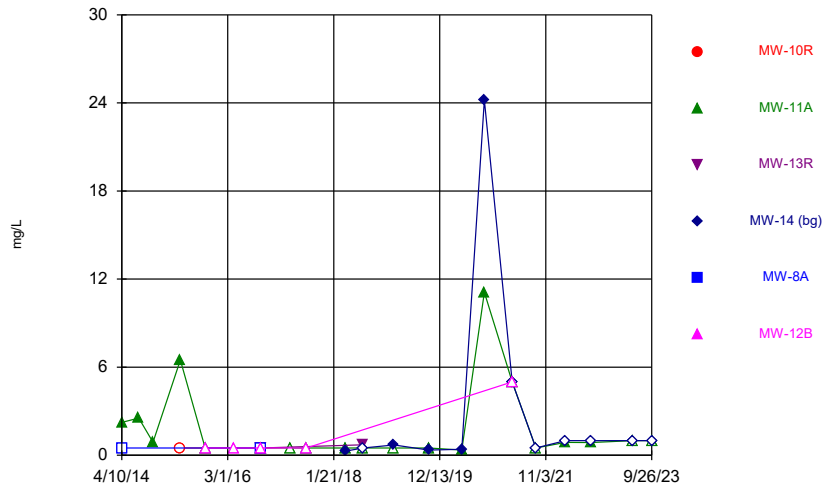
Constituent: Silver Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



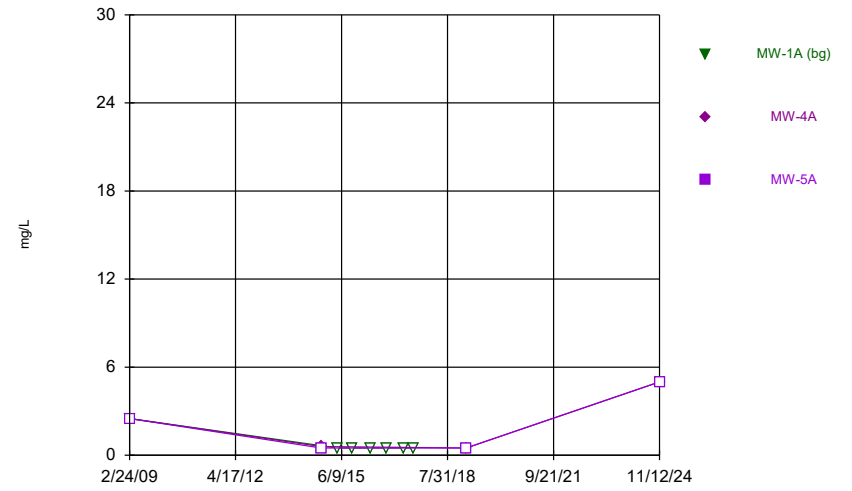
Constituent: Silver Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



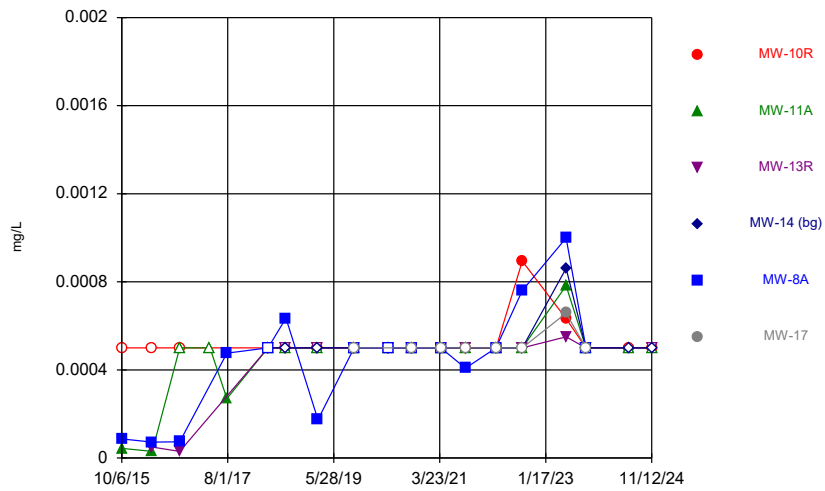
Constituent: Sulfide Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



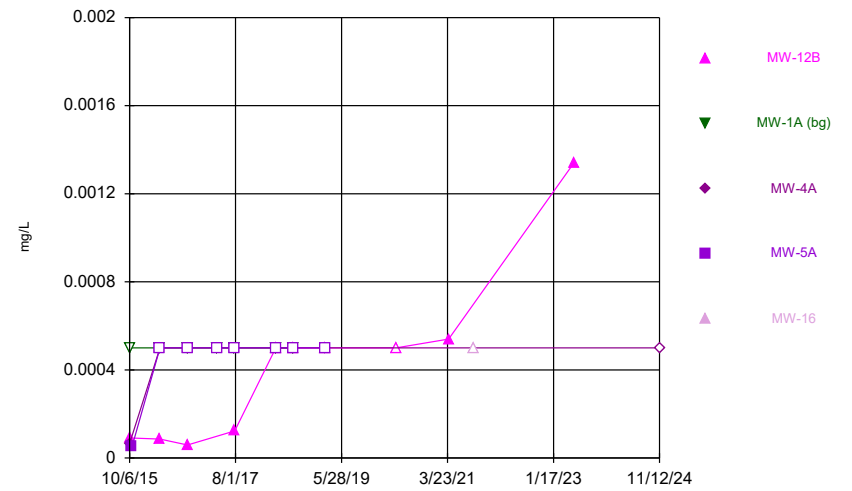
Constituent: Sulfide Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



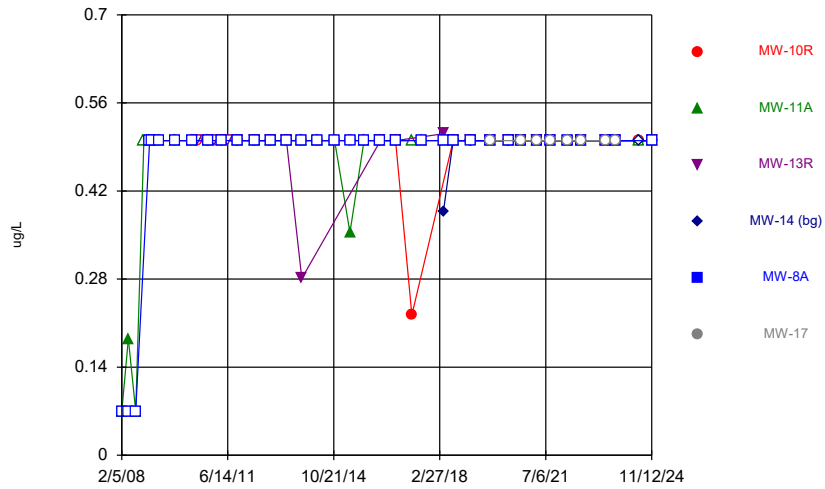
Constituent: Thallium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



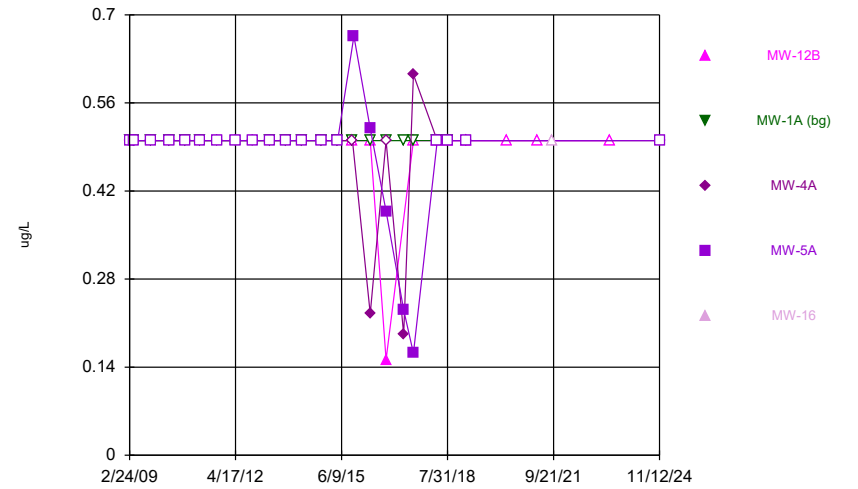
Constituent: Thallium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



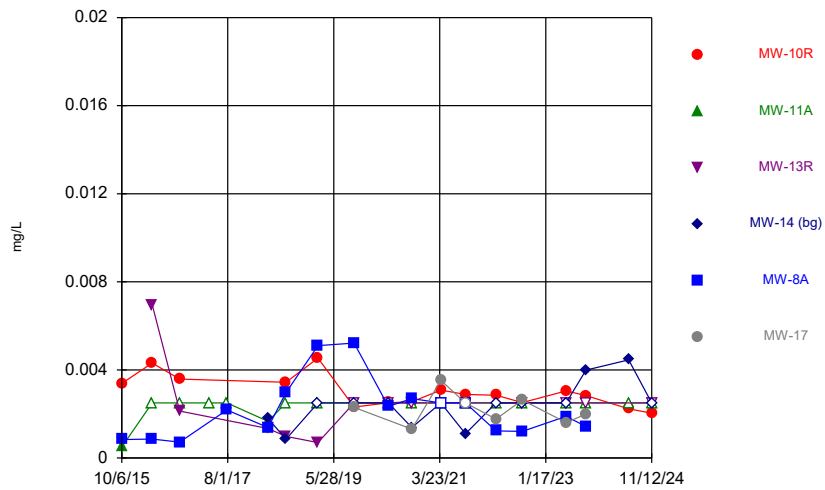
Constituent: Toluene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



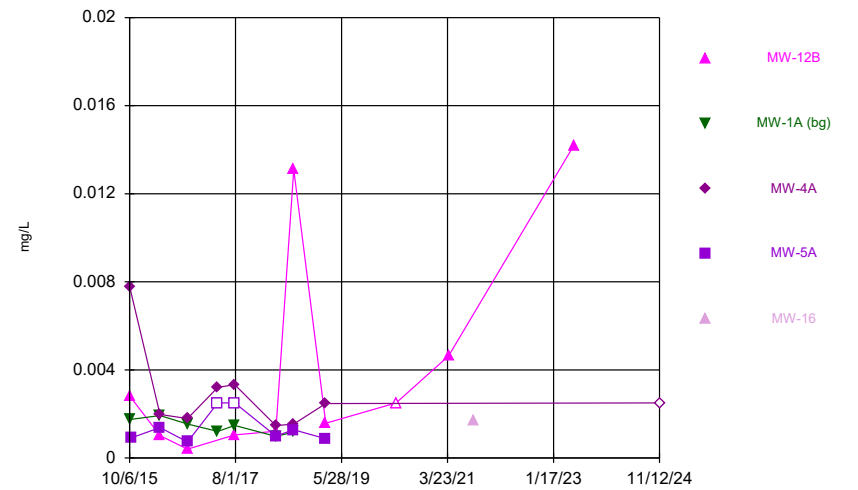
Constituent: Toluene Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



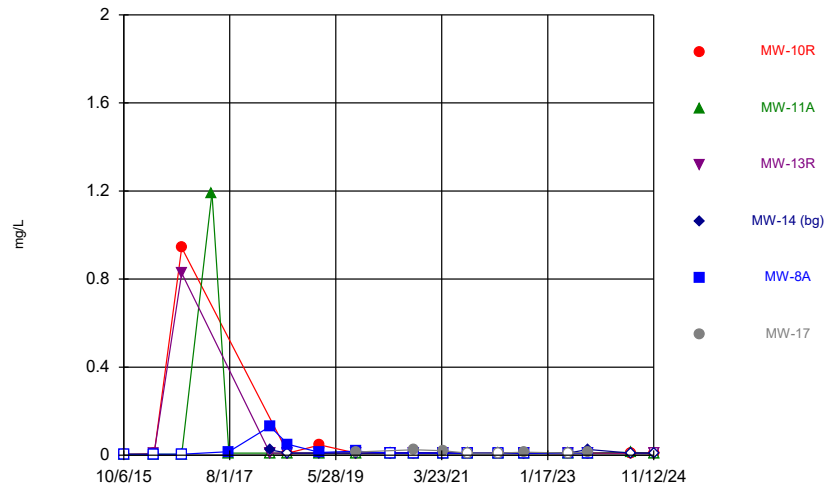
Constituent: Vanadium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



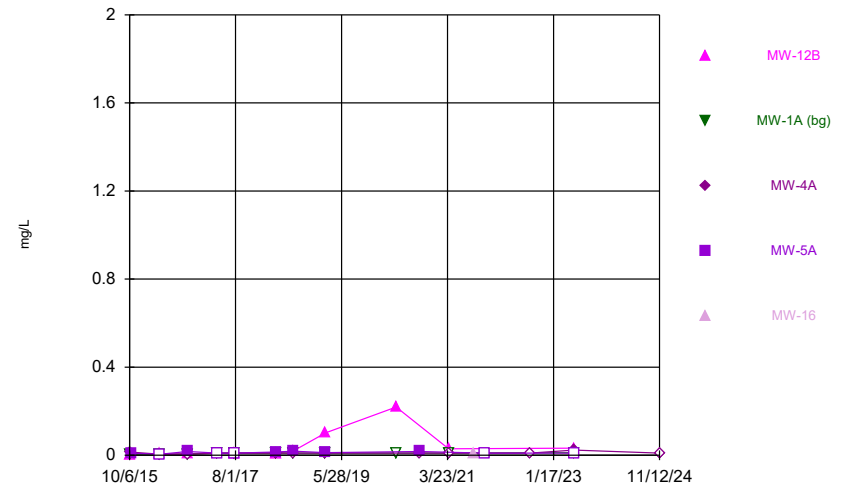
Constituent: Vanadium Analysis Run 2/21/2025 9:48 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



Constituent: Zinc Analysis Run 2/21/2025 9:49 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Time Series



Constituent: Zinc Analysis Run 2/21/2025 9:49 AM View: 2024AWQR-Time_Series
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Attachment B.2

Outlier Analysis

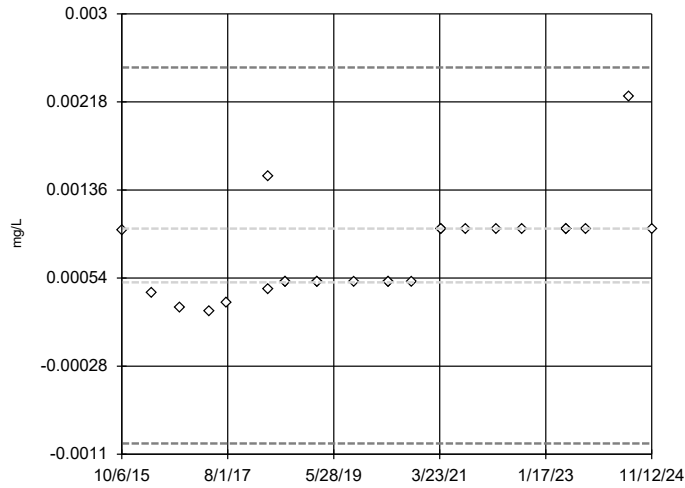
BG Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/20/2025, 10:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	25	0.0007735	0.0004454	unknown	ShapiroWilk
Arsenic (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	25	0.001757	0.0008672	normal	ShapiroWilk
Barium (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	25	0.4299	0.281	normal	ShapiroWilk
Cadmium (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	21	0.000125	0.00008865	normal	ShapiroWilk
Chromium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	21	0.002375	0.0004287	unknown	ShapiroWilk
Cobalt (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	25	0.0004146	0.0003139	normal	ShapiroWilk
Copper (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	25	0.002556	0.0006712	unknown	ShapiroWilk
Lead (mg/L)	MW-14,MW-1A	Yes	0.00106,0.0006,0.000498,0.00138,0.000724	n/a w/combined bg	NP	NaN	25	0.0003716	0.0002867	normal	ShapiroWilk
Nickel (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	25	0.004193	0.002564	normal	ShapiroWilk
Selenium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	21	0.002434	0.0003011	unknown	ShapiroWilk
Thallium (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	21	0.0005172	0.00007878	unknown	ShapiroWilk
Vanadium (mg/L)	MW-14,MW-1A	No	n/a	n/a w/combined bg	NP	NaN	21	0.002079	0.0009305	normal	ShapiroWilk
Zinc (mg/L)	MW-14,MW-1A	n/a	n/a	n/a w/combined bg	NP	NaN	25	0.01076	0.004792	unknown	ShapiroWilk

Tukey's Outlier Screening, Pooled Background

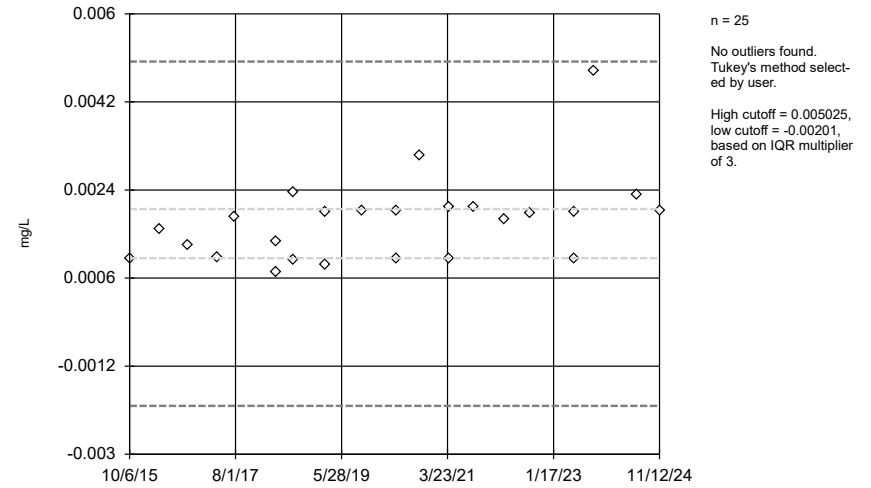
MW-14,MW-1A



Constituent: Antimony Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

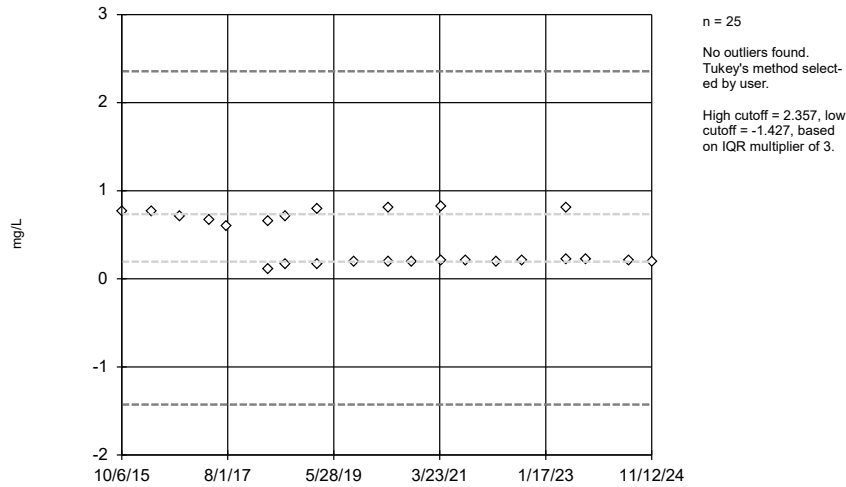
MW-14,MW-1A



Constituent: Arsenic Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

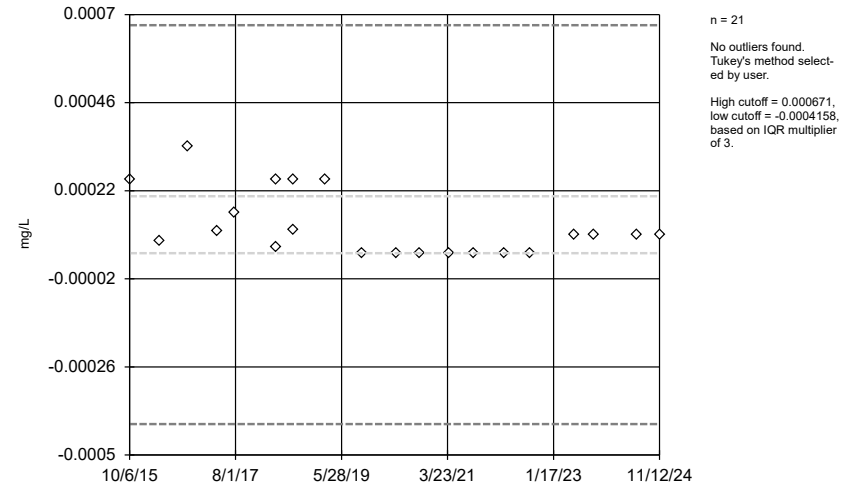
MW-14,MW-1A



Constituent: Barium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

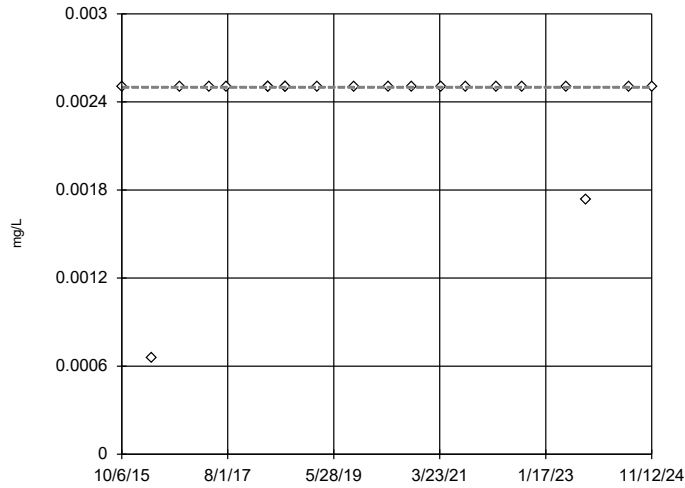
MW-14,MW-1A



Constituent: Cadmium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

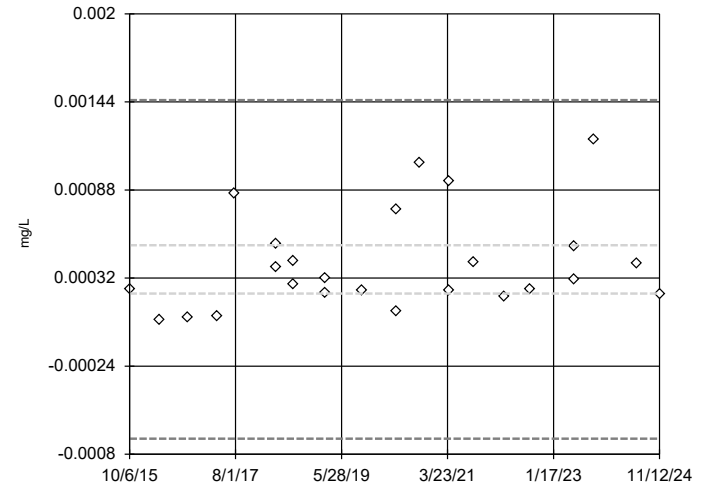


n = 21
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

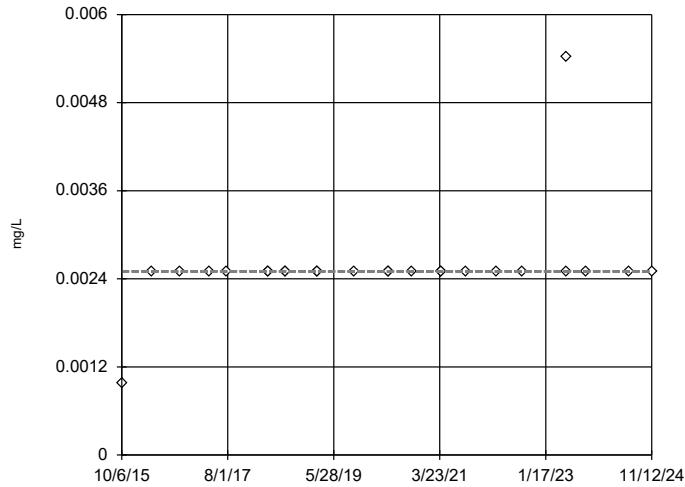


n = 25
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.001452,
 low cutoff = -0.000701,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

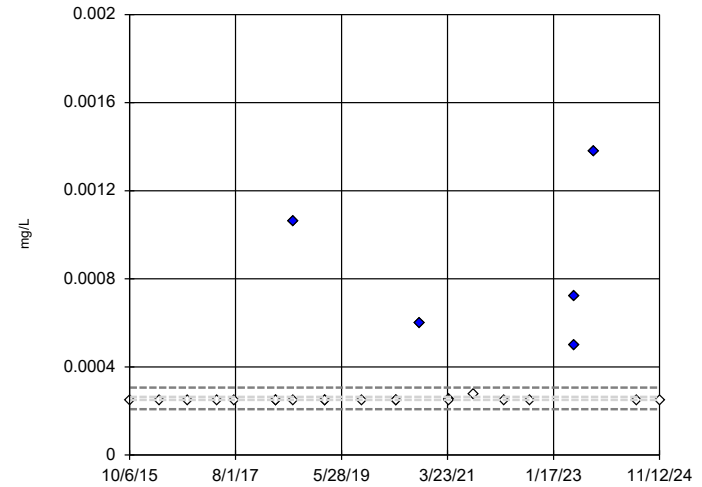


n = 25
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Copper Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

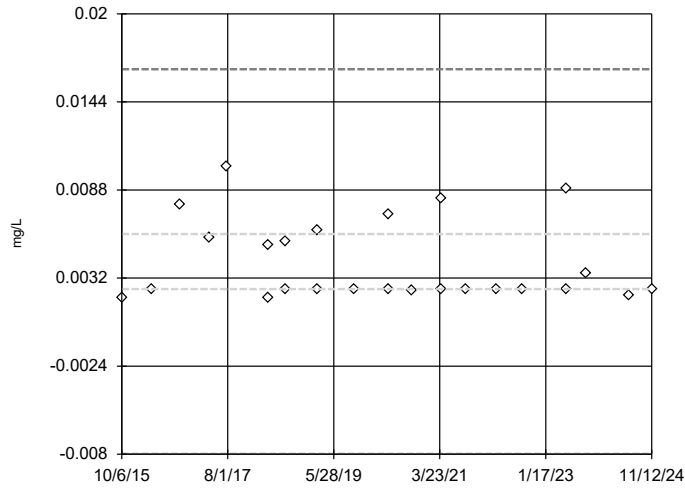


n = 25
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.000306,
 low cutoff = 0.000208,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

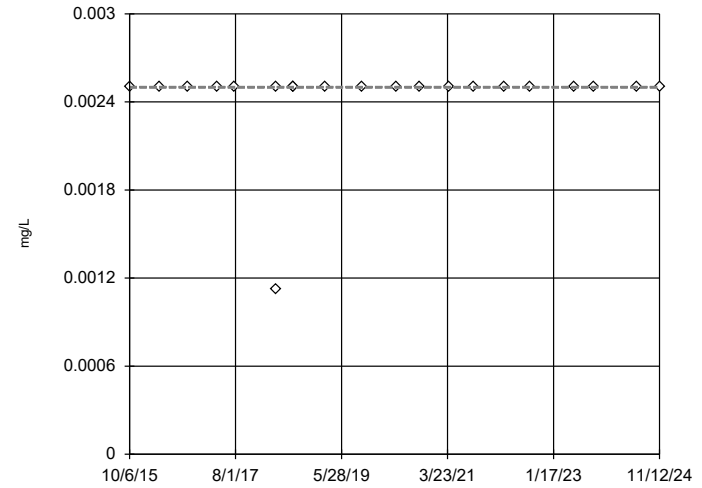


n = 25
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01648,
 low cutoff = -0.007985,
 based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

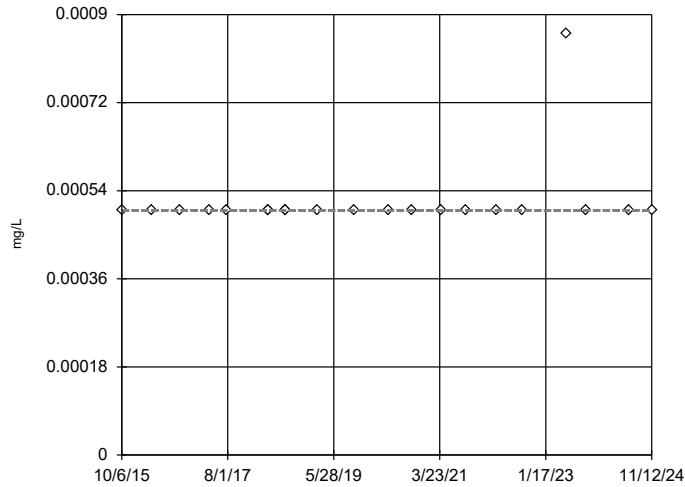


n = 21
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Selenium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

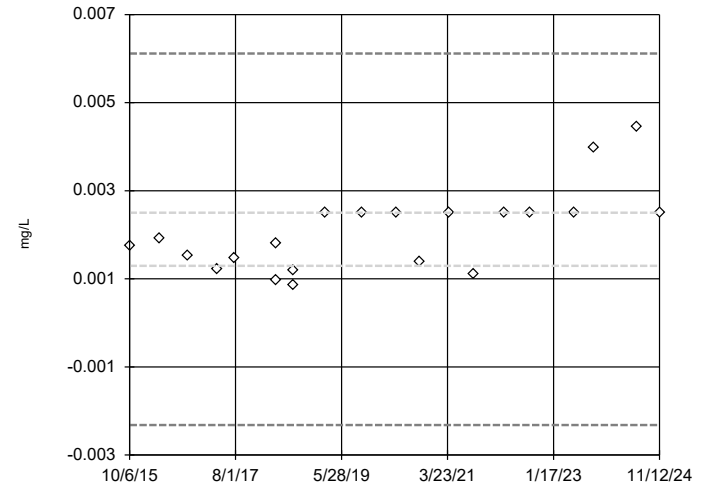


n = 21
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Thallium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A

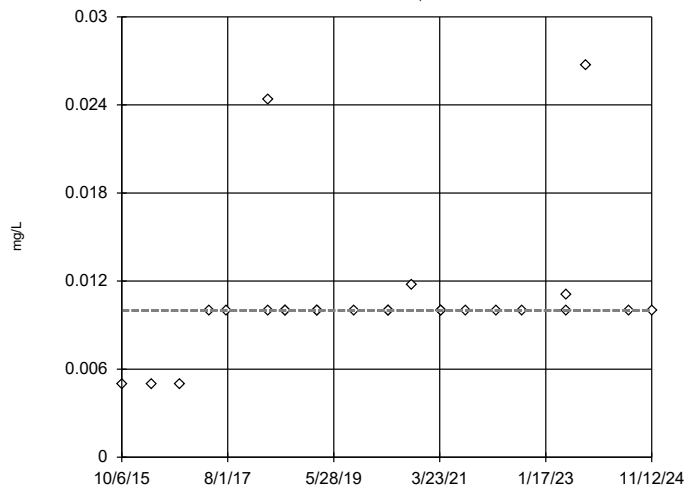


n = 21
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.006115,
 low cutoff = -0.00232,
 based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 2/20/2025 10:13 PM View: 2024AWQR-BG_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening, Pooled Background

MW-14,MW-1A



n = 25
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

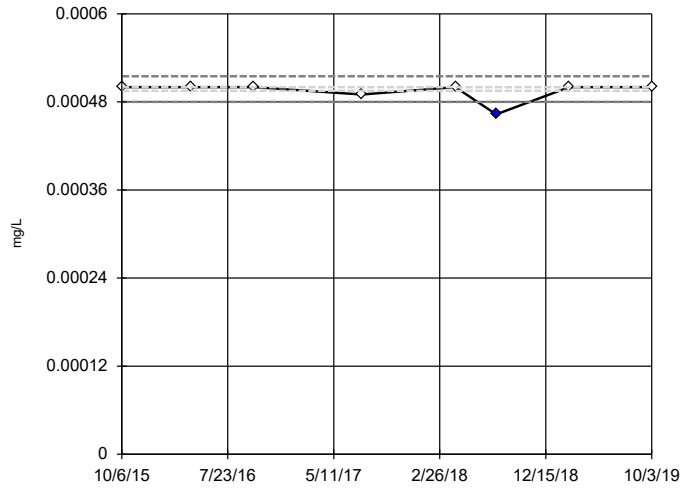
MW-8A Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 12:18 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-8A	Yes	0.000463	8/1/2018	NP	NaN	8	0.0004941	0.00001305	normal	ShapiroWilk
Arsenic (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.001989	0.0007902	normal	ShapiroWilk
Barium (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.03365	0.01405	normal	ShapiroWilk
Beryllium (mg/L)	MW-8A	n/a	n/a	n/a	NP	NaN	8	0.0008876	0.001248	unknown	ShapiroWilk
Cadmium (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.000971	0.0008724	normal	ShapiroWilk
Chromium (mg/L)	MW-8A	Yes	0.0236	10/3/2019	NP	NaN	8	0.004841	0.007642	normal	ShapiroWilk
Cobalt (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.007223	0.001961	normal	ShapiroWilk
Copper (mg/L)	MW-8A	Yes	0.501	4/11/2018	NP	NaN	8	0.06782	0.1752	normal	ShapiroWilk
Lead (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.00148	0.00132	normal	ShapiroWilk
Nickel (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.03979	0.00581	normal	ShapiroWilk
Thallium (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.0003148	0.0002348	normal	ShapiroWilk
Vanadium (mg/L)	MW-8A	No	n/a	n/a	NP	NaN	8	0.002408	0.001863	normal	ShapiroWilk
Zinc (mg/L)	MW-8A	Yes	0.131	4/11/2018	NP	NaN	8	0.03039	0.0432	normal	ShapiroWilk

Tukey's Outlier Screening

MW-8A

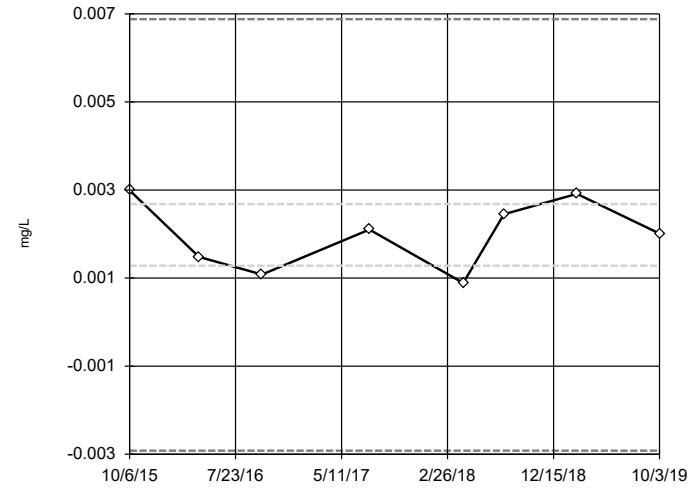


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.000515,
 low cutoff = 0.00048,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

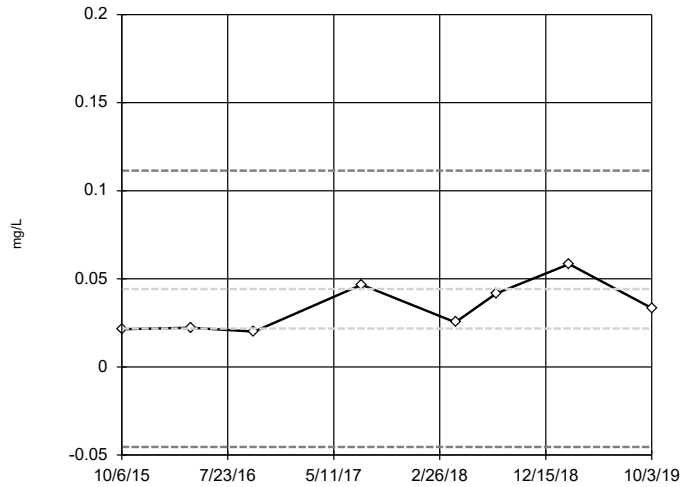


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00688,
 low cutoff = -0.00292,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

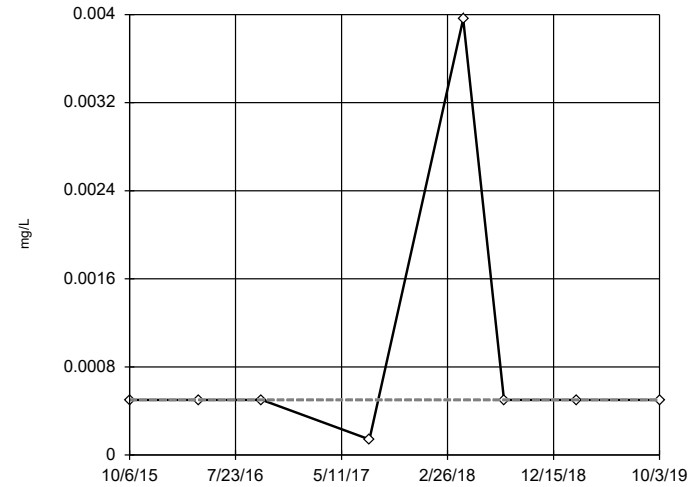


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1114,
 low cutoff = -0.0454,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

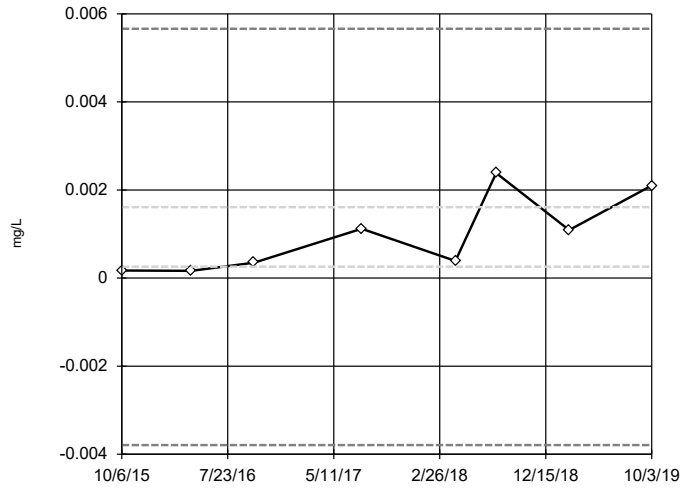


n = 8
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Beryllium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

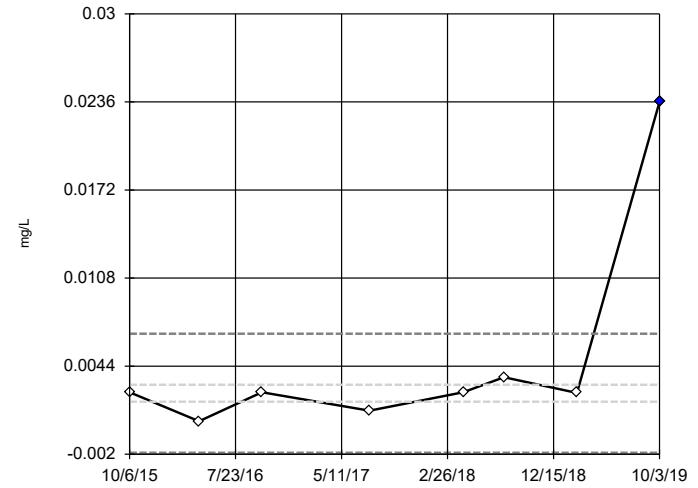


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00566,
 low cutoff = -0.00379,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

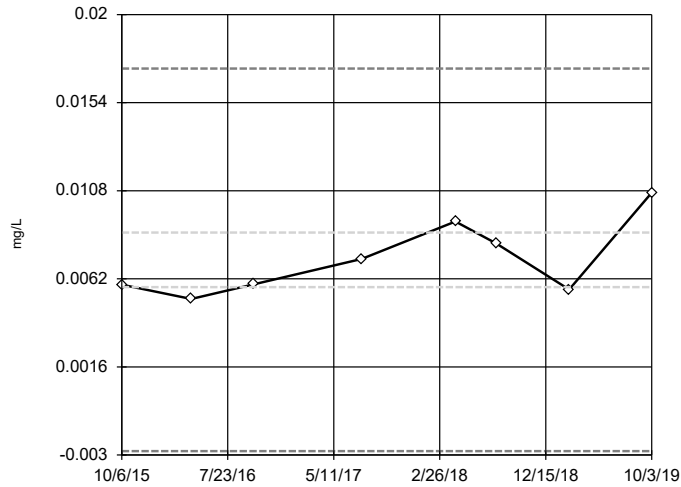


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.006755,
 low cutoff = -0.00189,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

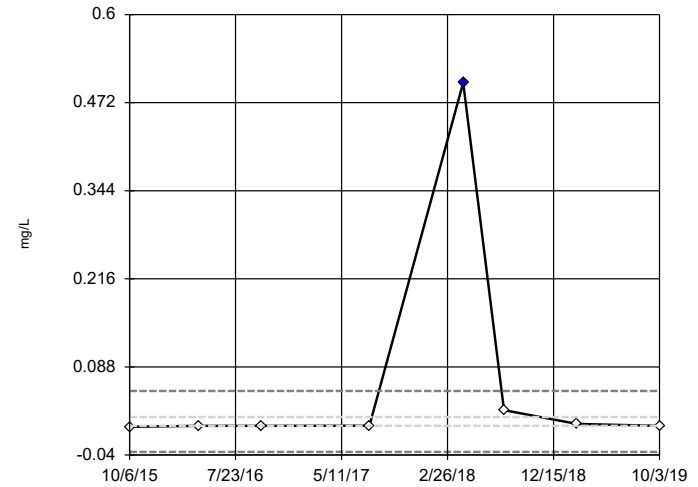


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01719,
 low cutoff = -0.0028,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

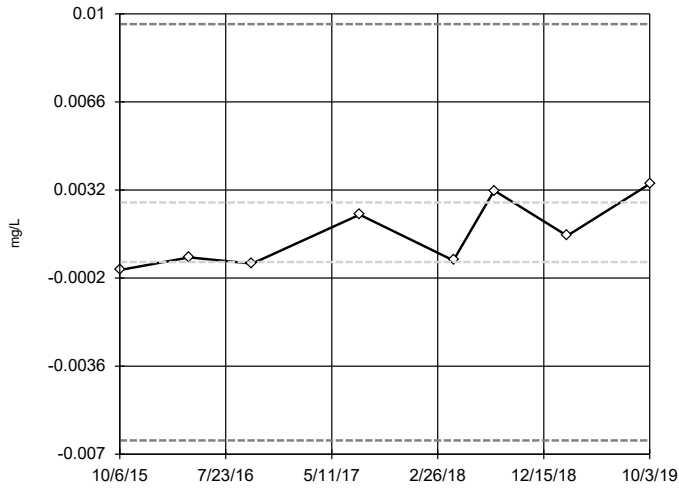


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.05316,
 low cutoff = -0.0355,
 based on IQR multiplier of 3.

Constituent: Copper Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

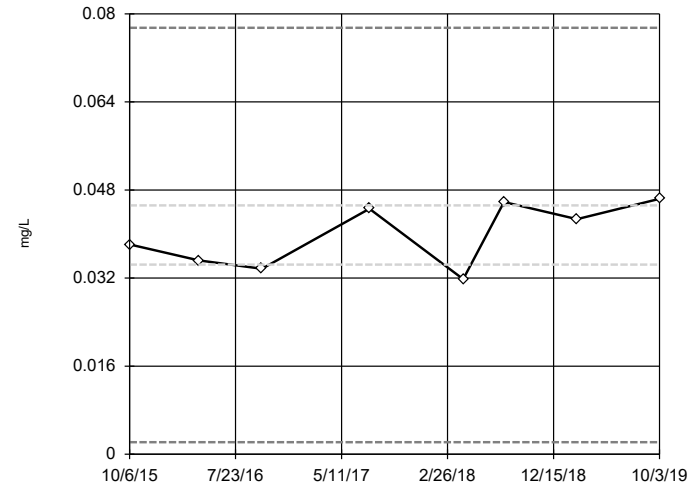


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0096,
 low cutoff = -0.006465,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

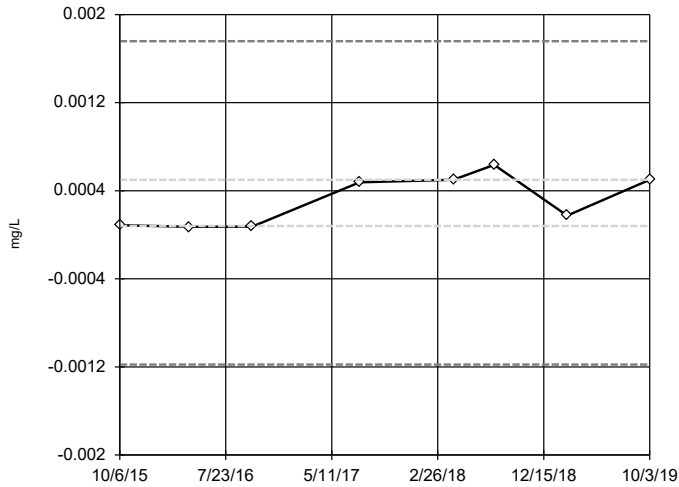


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.07745,
 low cutoff = 0.0022, based
 on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

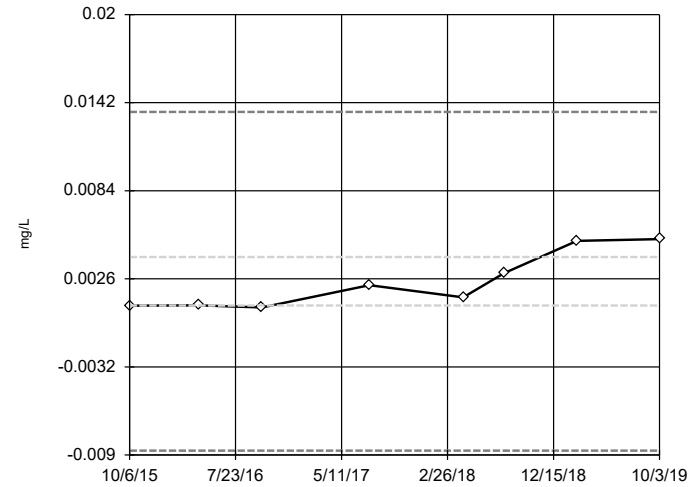


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.001759,
 low cutoff = -0.001178,
 based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A

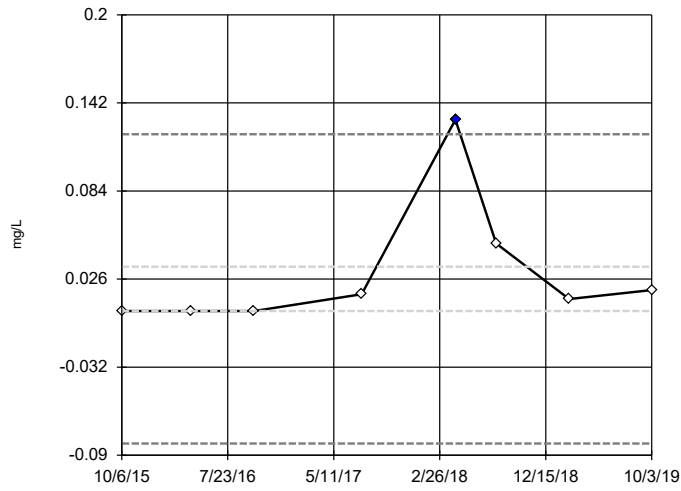


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01359,
 low cutoff = -0.008711,
 based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-8A



n = 8

Outlier is drawn as solid.
Tukey's method selected by user.

High cutoff = 0.1214,
low cutoff = -0.0823,
based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 2/21/2025 12:17 AM View: 2024AWQR-MW-8A_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

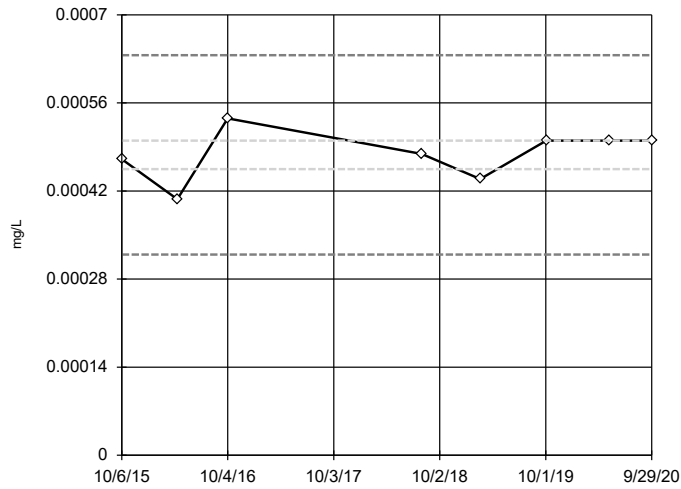
MW-10R Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 12:49 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.0004789	0.0000403	normal	ShapiroWilk
Arsenic (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.001703	0.0006967	normal	ShapiroWilk
Barium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.09476	0.02843	normal	ShapiroWilk
Cadmium (mg/L)	MW-10R	Yes	0.00244	2/18/2019	NP	NaN	8	0.0004577	0.0008098	normal	ShapiroWilk
Chromium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.002069	0.0008285	normal	ShapiroWilk
Cobalt (mg/L)	MW-10R	Yes	0.00361	4/14/2016	NP	NaN	8	0.0009301	0.001127	normal	ShapiroWilk
Copper (mg/L)	MW-10R	Yes	0.0009655,0.00893	10/6/2015,2/18/2019	NP	NaN	8	0.003021	0.002451	normal	ShapiroWilk
Lead (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.0006052	0.0004976	normal	ShapiroWilk
Nickel (mg/L)	MW-10R	Yes	0.0115	2/18/2019	NP	NaN	8	0.003769	0.003336	normal	ShapiroWilk
Selenium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.007135	0.001599	normal	ShapiroWilk
Vanadium (mg/L)	MW-10R	No	n/a	n/a	NP	NaN	8	0.003329	0.0008304	normal	ShapiroWilk
Zinc (mg/L)	MW-10R	Yes	0.9426	10/4/2016	NP	NaN	8	0.1303	0.3285	normal	ShapiroWilk

Tukey's Outlier Screening

MW-10R

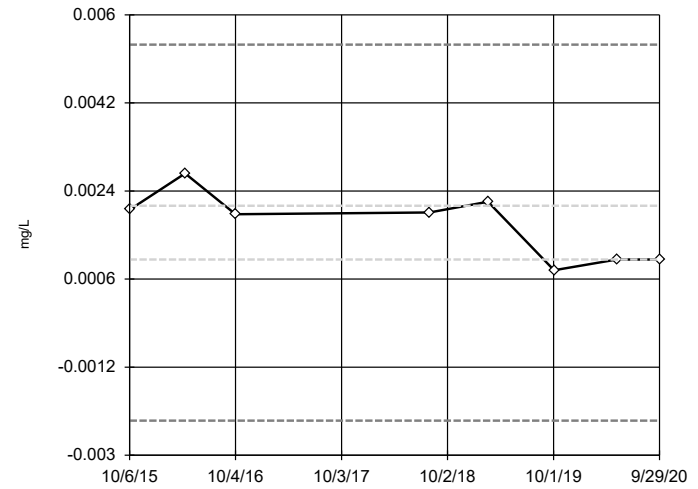


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0006358,
 low cutoff = 0.000319,
 based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

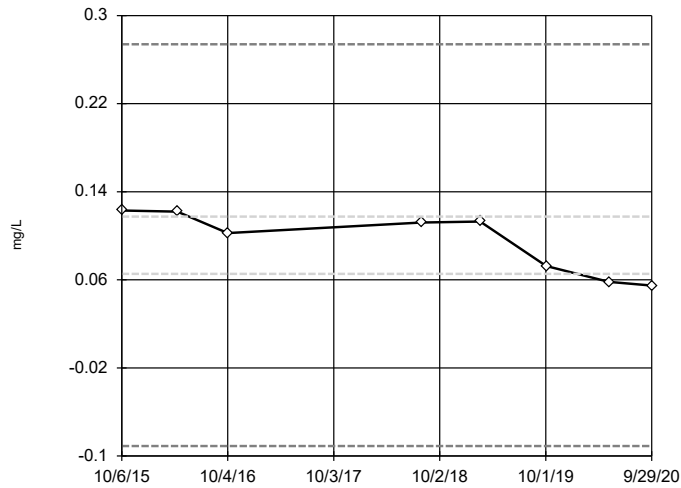


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00539,
 low cutoff = -0.002292,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

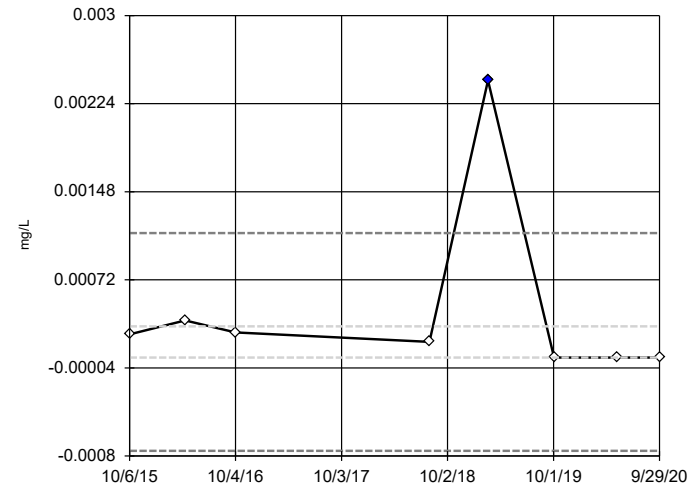


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.2739,
 low cutoff = -0.091,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

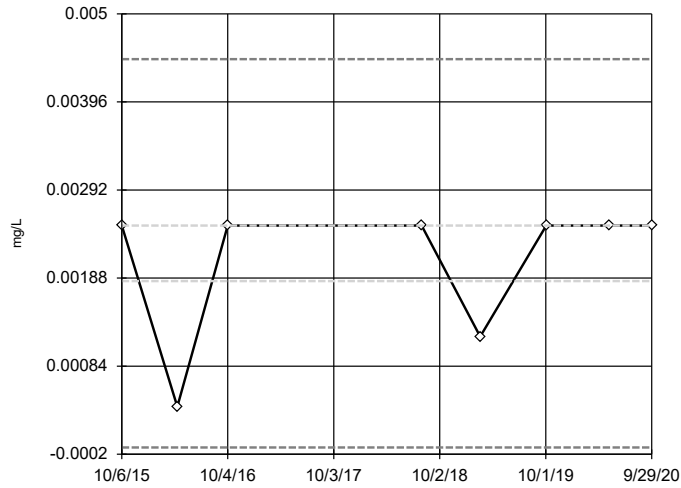
MW-10R



n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.001123,
 low cutoff = -0.0007548,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

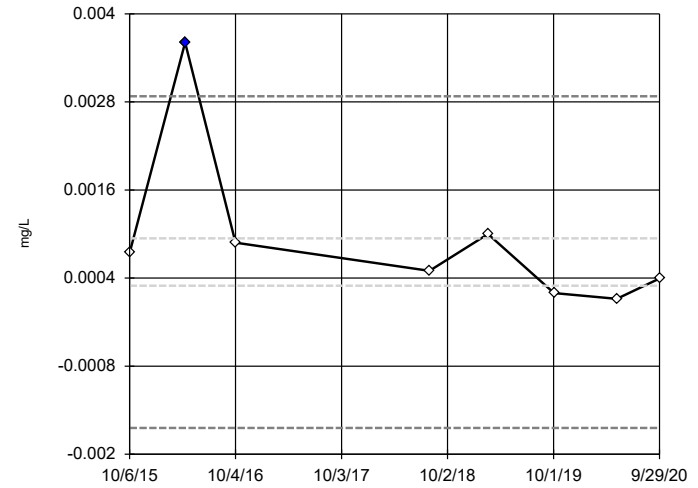
Tukey's Outlier Screening
MW-10R



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.004465,
low cutoff = -0.00012,
based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

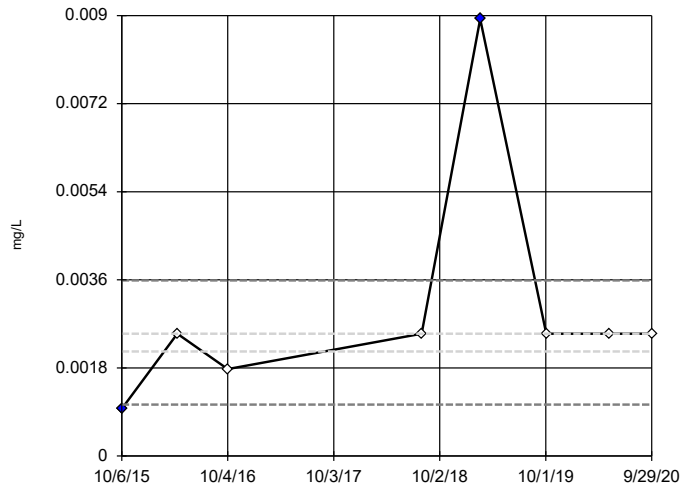
Tukey's Outlier Screening
MW-10R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.002878,
low cutoff = -0.001641,
based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

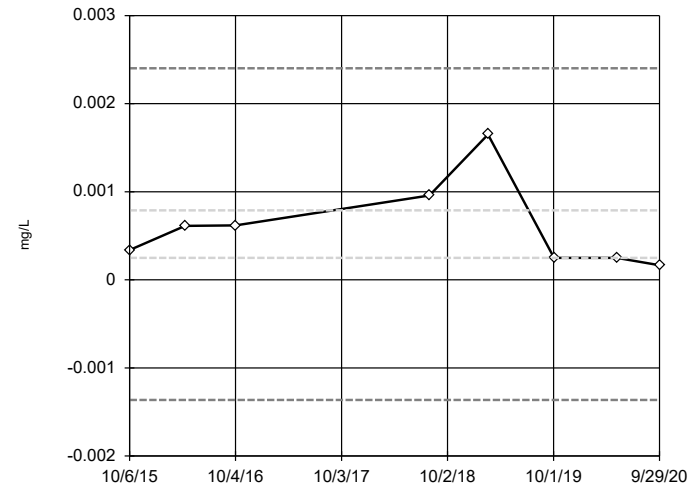
Tukey's Outlier Screening
MW-10R



n = 8
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.003587,
low cutoff = 0.00105,
based on IQR multiplier of 3.

Constituent: Copper Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening
MW-10R

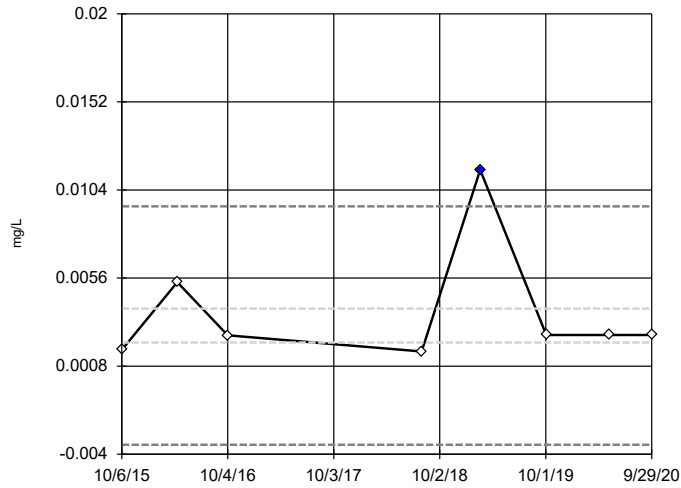


n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.002402,
low cutoff = -0.001364,
based on IQR multiplier of 3.

Constituent: Lead Analysis Run 2/21/2025 12:48 AM View: 2024AWQR-MW-10R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

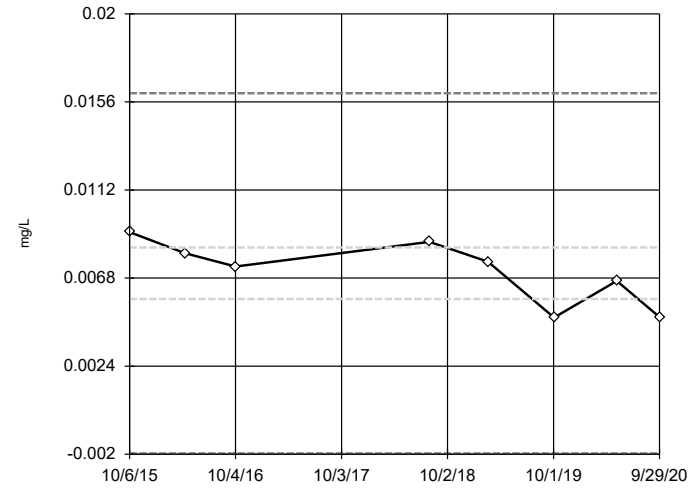


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.009505,
 low cutoff = -0.00348,
 based on IQR multiplier
 of 3.

Constituent: Nickel Analysis Run 2/21/2025 12:49 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

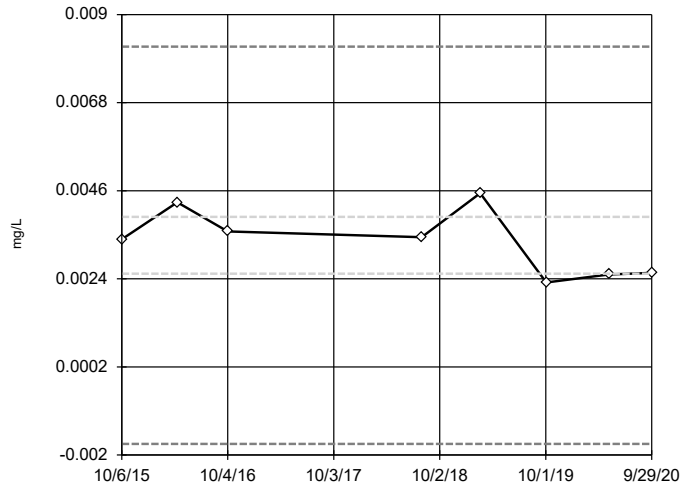


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01604,
 low cutoff = -0.001955,
 based on IQR multiplier
 of 3.

Constituent: Selenium Analysis Run 2/21/2025 12:49 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R

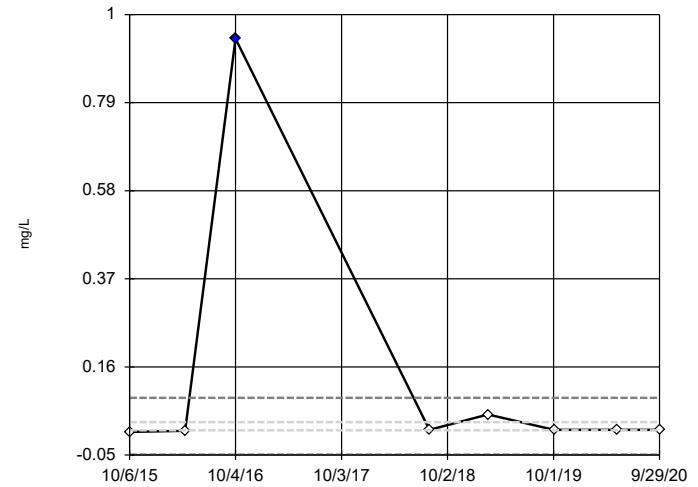


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0082,
 low cutoff = -0.001723,
 based on IQR multiplier
 of 3.

Constituent: Vanadium Analysis Run 2/21/2025 12:49 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-10R



n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.08618,
 low cutoff = -0.04899,
 based on IQR multiplier
 of 3.

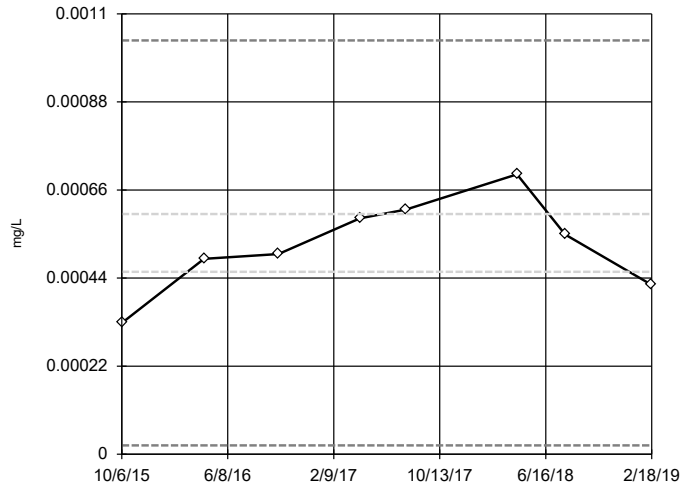
Constituent: Zinc Analysis Run 2/21/2025 12:49 AM View: 2024AWQR-MW-10R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

MW-11A Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 1:04 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0005234	0.0001156	normal	ShapiroWilk
Arsenic (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.009469	0.002819	normal	ShapiroWilk
Barium (mg/L)	MW-11A	Yes	0.0235	10/6/2015	NP	NaN	8	0.01587	0.003397	normal	ShapiroWilk
Beryllium (mg/L)	MW-11A	n/a	n/a	n/a	NP	NaN	8	0.0004544	0.000129	unknown	ShapiroWilk
Cadmium (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0004131	0.000089	normal	ShapiroWilk
Cobalt (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.002061	0.000597	normal	ShapiroWilk
Lead (mg/L)	MW-11A	Yes	0.00101	10/6/2015	NP	NaN	8	0.0003839	0.0002721	normal	ShapiroWilk
Nickel (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.01255	0.002821	normal	ShapiroWilk
Thallium (mg/L)	MW-11A	No	n/a	n/a	NP	NaN	8	0.0003555	0.000212	normal	ShapiroWilk
Vanadium (mg/L)	MW-11A	Yes	0.000505	10/6/2015	NP	NaN	8	0.002147	0.0007244	normal	ShapiroWilk
Zinc (mg/L)	MW-11A	n/a	n/a	n/a	NP	NaN	8	0.1556	0.418	unknown	ShapiroWilk

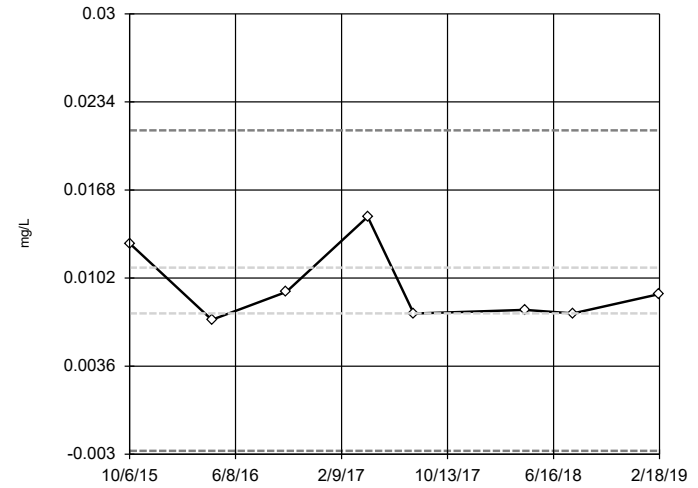
Tukey's Outlier Screening MW-11A



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.001034,
low cutoff = 0.000022,
based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

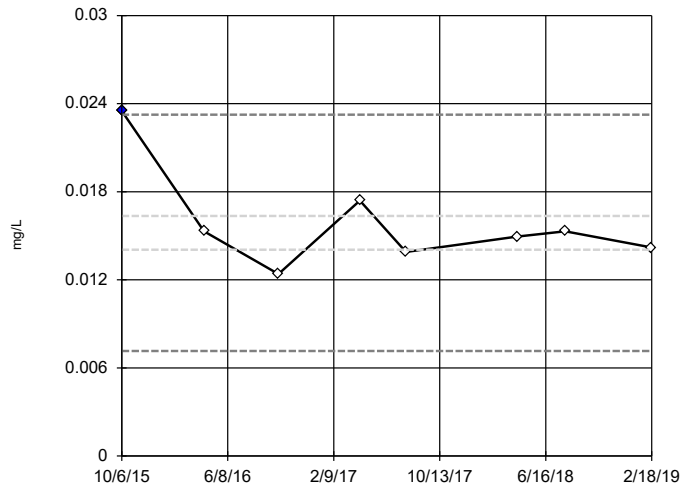
Tukey's Outlier Screening MW-11A



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.02127,
low cutoff = -0.00274,
based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

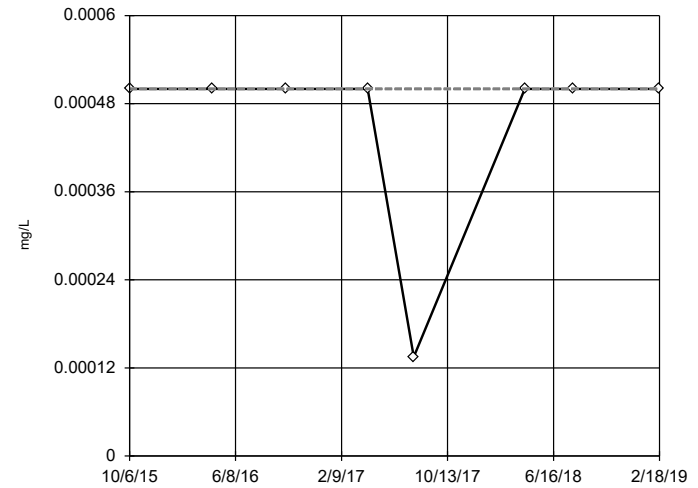
Tukey's Outlier Screening MW-11A



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.02325,
low cutoff = 0.00715,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening MW-11A

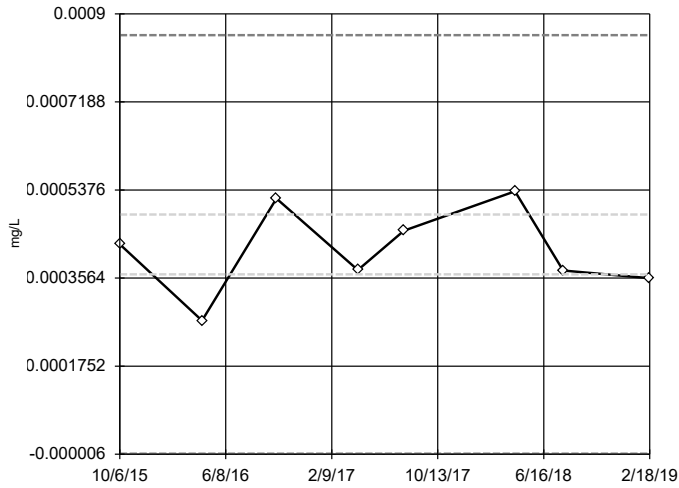


n = 8
No outliers found.
Tukey's method selected by user.
The results were invalidated,
because the lower and upper
quartiles are equal.

Constituent: Beryllium Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

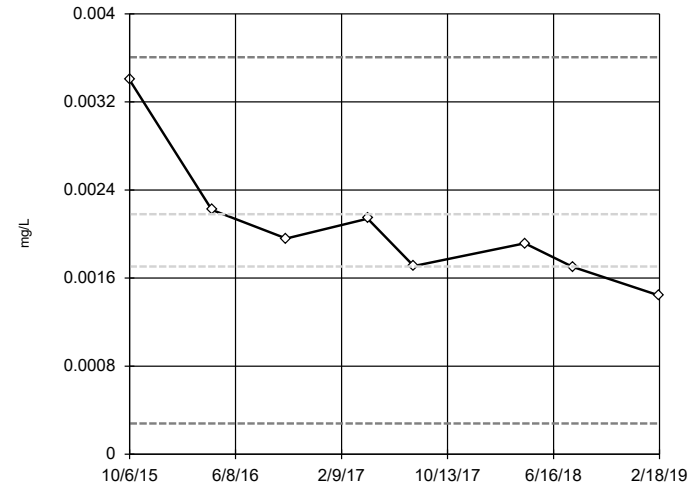


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.000856,
 low cutoff = -0.000005,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

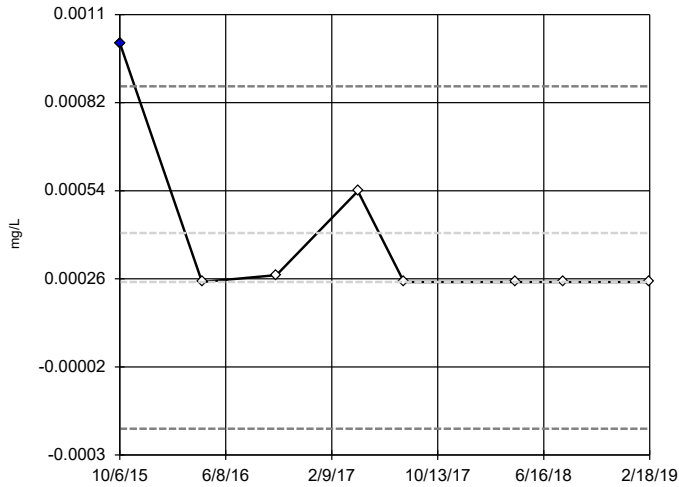


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.003605,
 low cutoff = 0.00028,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

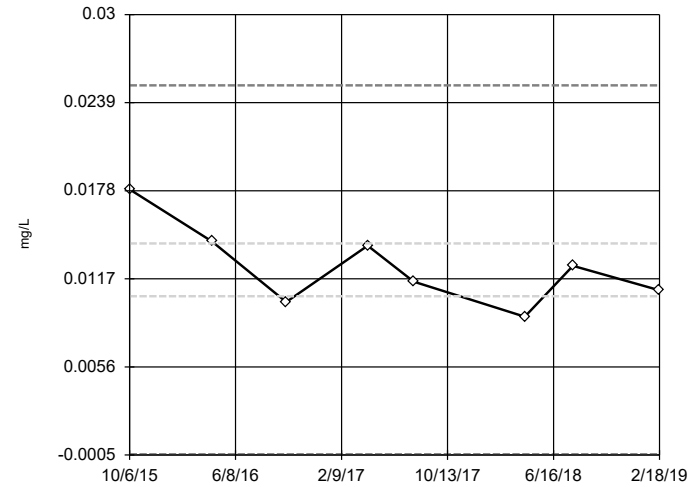


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.000872,
 low cutoff = -0.0002165,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

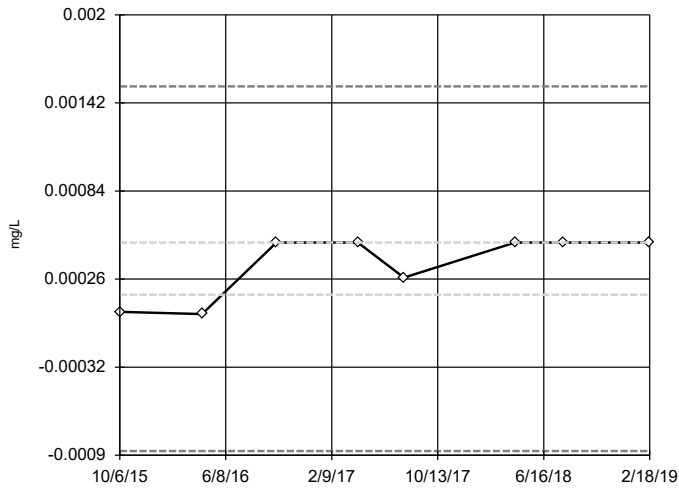


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0251,
 low cutoff = -0.00045,
 based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

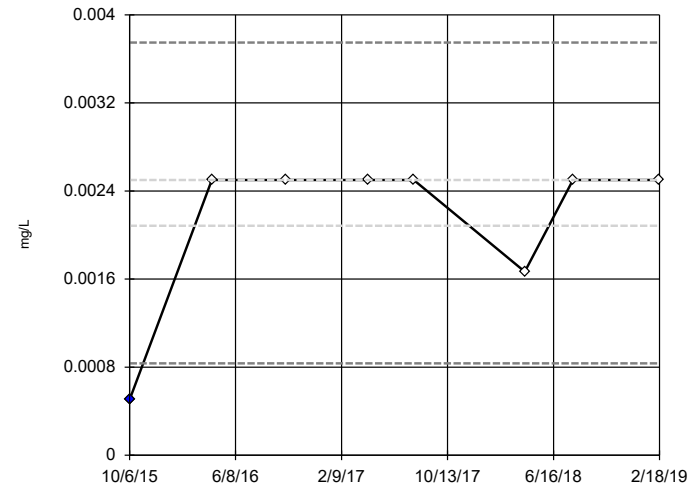


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.001529,
 low cutoff = -0.000872,
 based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A

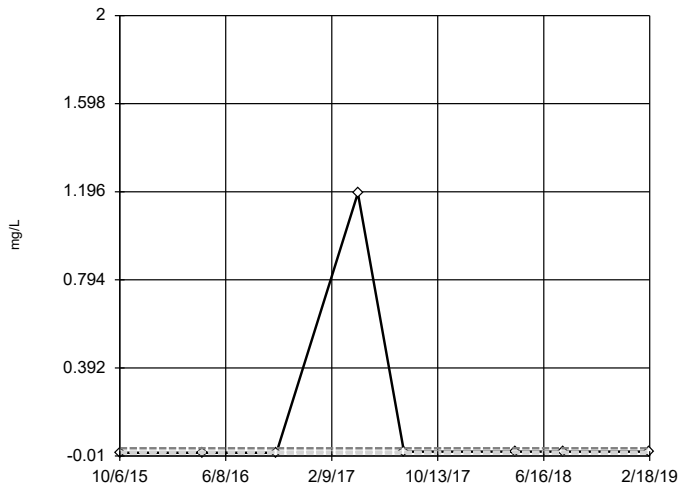


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.003749,
 low cutoff = 0.000835,
 based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-11A



n = 8
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because both the lower and upper
 quartiles represent reporting limits.

Constituent: Zinc Analysis Run 2/21/2025 1:03 AM View: 2024AWQR-MW-11A_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

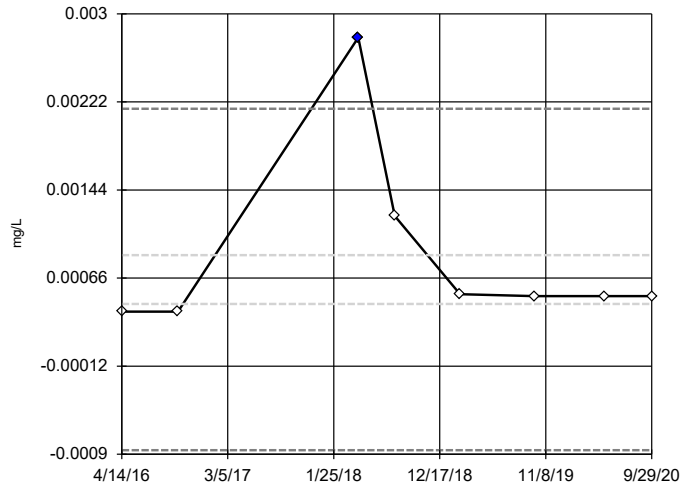
MW-13R Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 1:16 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-13R	Yes	0.00279	4/11/2018	NP	NaN	8	0.0008429	0.000832	normal	ShapiroWilk
Arsenic (mg/L)	MW-13R	No	n/a	n/a	NP	NaN	8	0.002388	0.001776	normal	ShapiroWilk
Barium (mg/L)	MW-13R	No	n/a	n/a	NP	NaN	8	0.2018	0.1863	normal	ShapiroWilk
Beryllium (mg/L)	MW-13R	n/a	n/a	n/a	NP	NaN	8	0.0004994	0.00001768	unknown	ShapiroWilk
Cadmium (mg/L)	MW-13R	n/a	n/a	n/a	NP	NaN	8	0.0002199	0.0001946	unknown	ShapiroWilk
Chromium (mg/L)	MW-13R	No	n/a	n/a	NP	NaN	8	0.002023	0.0008982	normal	ShapiroWilk
Cobalt (mg/L)	MW-13R	Yes	0.00873	4/14/2016	NP	NaN	8	0.001942	0.002806	normal	ShapiroWilk
Copper (mg/L)	MW-13R	n/a	n/a	n/a	NP	NaN	8	0.00278	0.001227	unknown	ShapiroWilk
Lead (mg/L)	MW-13R	Yes	0.00635	4/14/2016	NP	NaN	8	0.001189	0.002143	normal	ShapiroWilk
Nickel (mg/L)	MW-13R	Yes	0.0239	4/14/2016	NP	NaN	8	0.005776	0.007846	normal	ShapiroWilk
Selenium (mg/L)	MW-13R	n/a	n/a	n/a	NP	NaN	8	0.002307	0.0005448	unknown	ShapiroWilk
Thallium (mg/L)	MW-13R	No	n/a	n/a	NP	NaN	8	0.000385	0.000213	normal	ShapiroWilk
Vanadium (mg/L)	MW-13R	Yes	0.00696	4/14/2016	NP	NaN	8	0.002452	0.00196	normal	ShapiroWilk
Zinc (mg/L)	MW-13R	Yes	0.827	10/4/2016	NP	NaN	8	0.1123	0.2888	normal	ShapiroWilk

Tukey's Outlier Screening

MW-13R

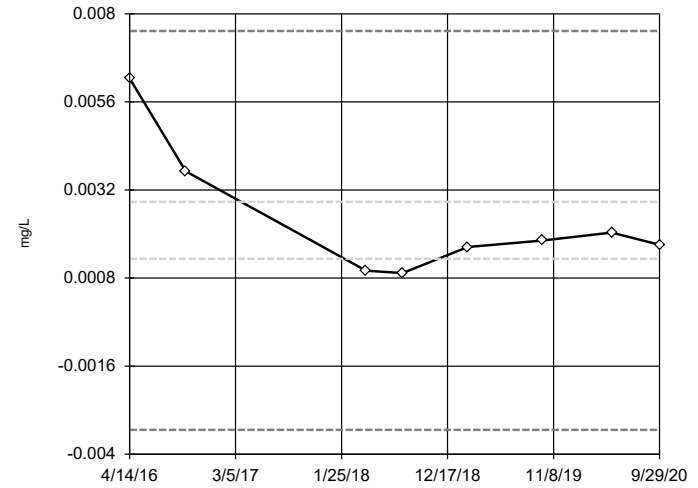


n = 8
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.002159,
 low cutoff = -0.0008645,
 based on IQR multiplier
 of 3.

Constituent: Antimony Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-13R

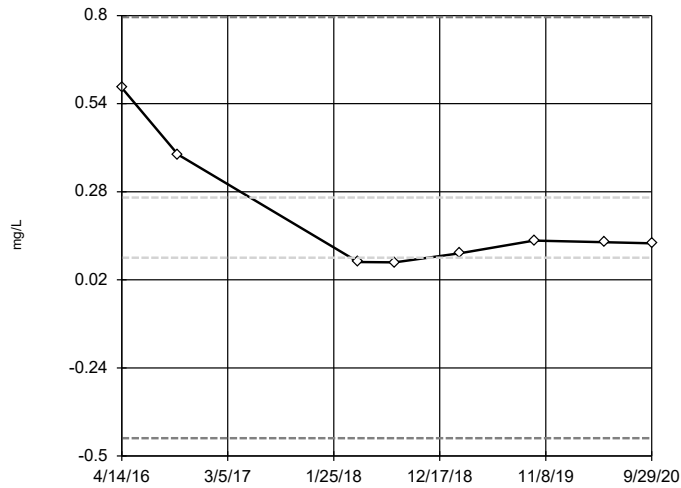


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.007532,
 low cutoff = -0.003335,
 based on IQR multiplier
 of 3.

Constituent: Arsenic Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-13R

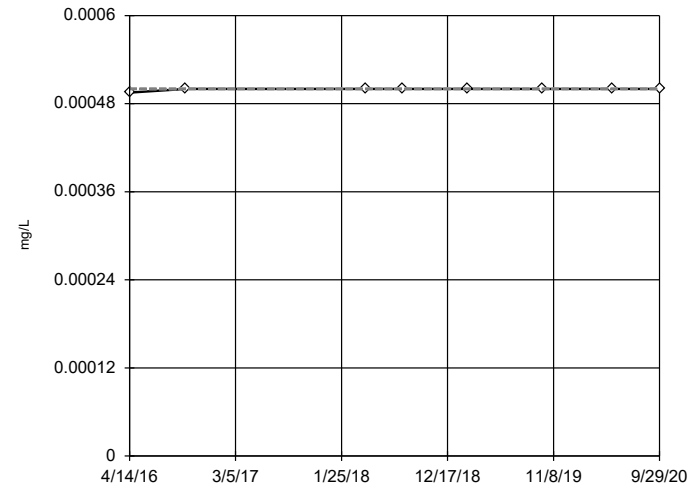


n = 8
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.7957,
 low cutoff = -0.4473,
 based on IQR multiplier
 of 3.

Constituent: Barium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

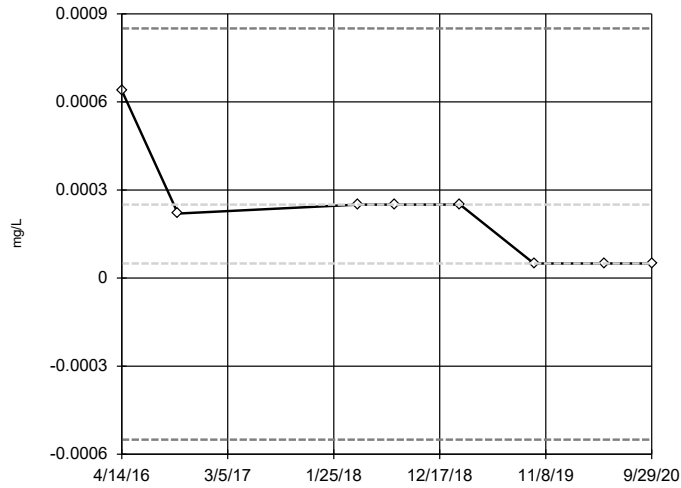
MW-13R



n = 8
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Beryllium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

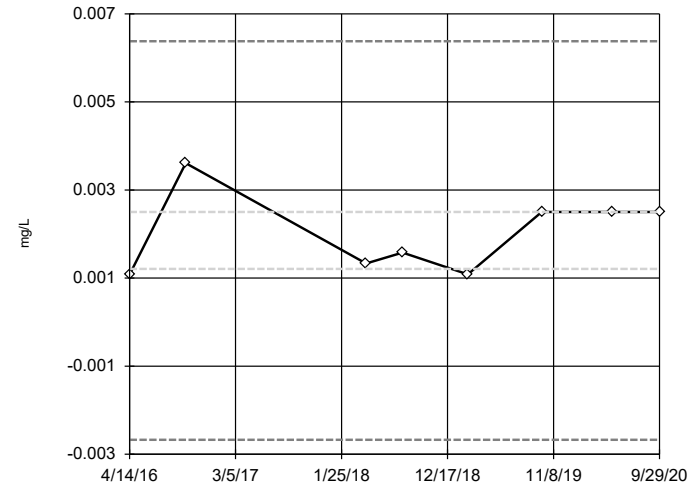
Tukey's Outlier Screening
MW-13R



n = 8
No outliers found.
Tukey's method selected by user.
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cadmium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

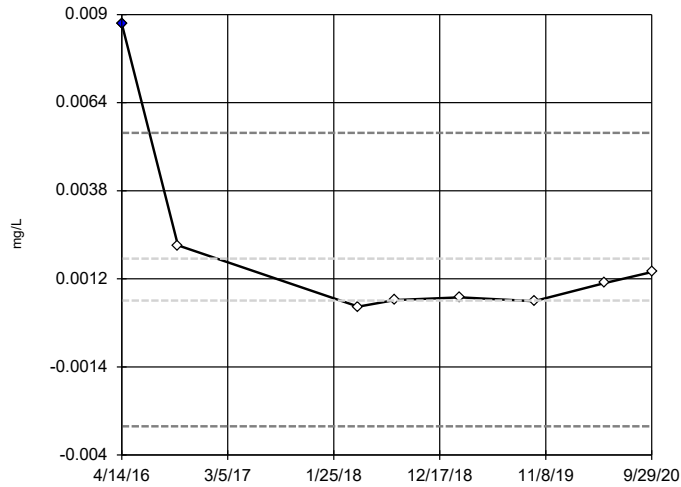
Tukey's Outlier Screening
MW-13R



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.006377,
low cutoff = -0.00267,
based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

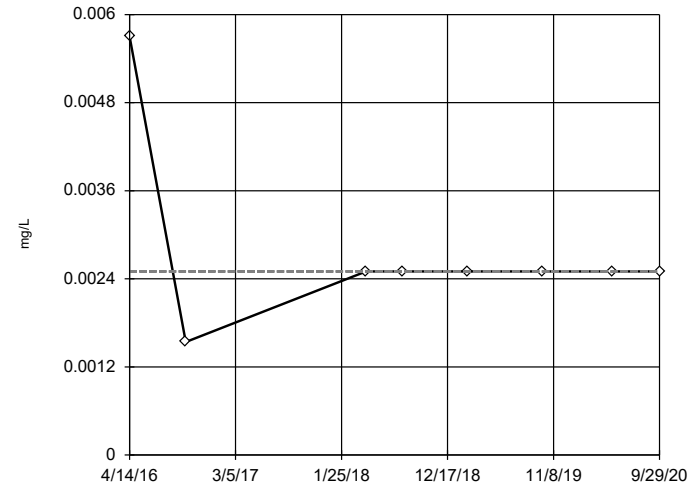
Tukey's Outlier Screening
MW-13R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.005508,
low cutoff = -0.003155,
based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

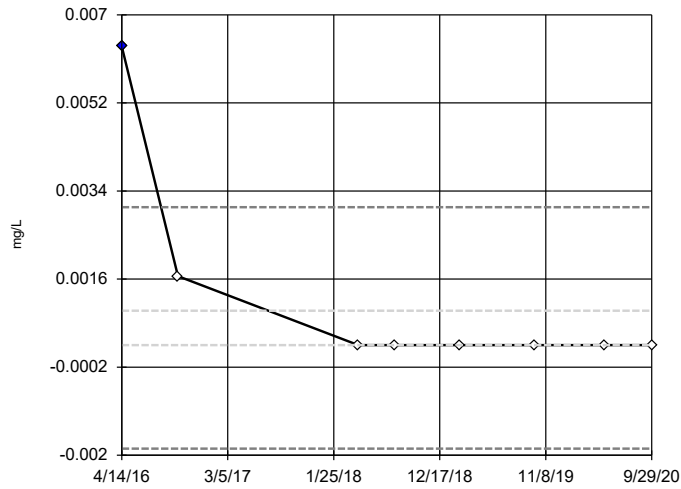
Tukey's Outlier Screening
MW-13R



n = 8
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Copper Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

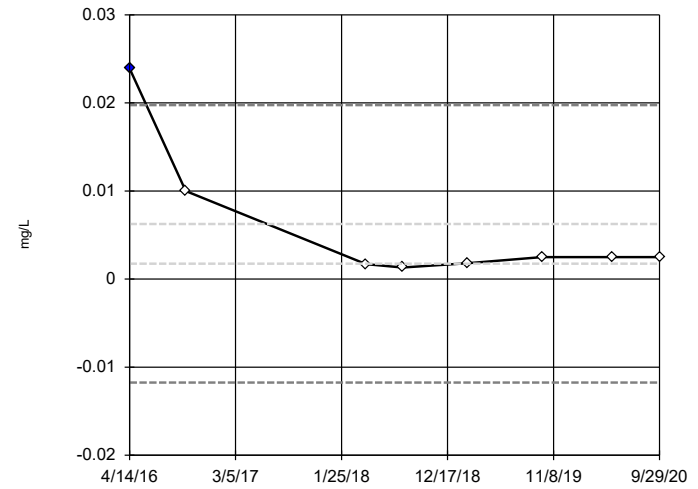
Tukey's Outlier Screening
MW-13R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.00307,
low cutoff = -0.001865,
based on IQR multiplier of 3.

Constituent: Lead Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

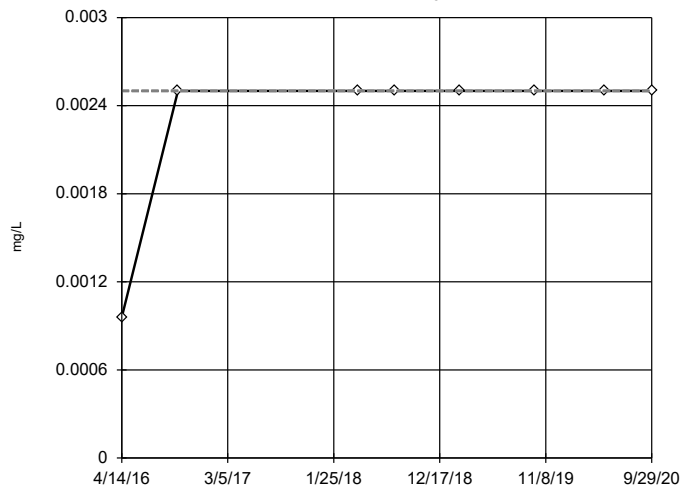
Tukey's Outlier Screening
MW-13R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.01975,
low cutoff = -0.01175,
based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

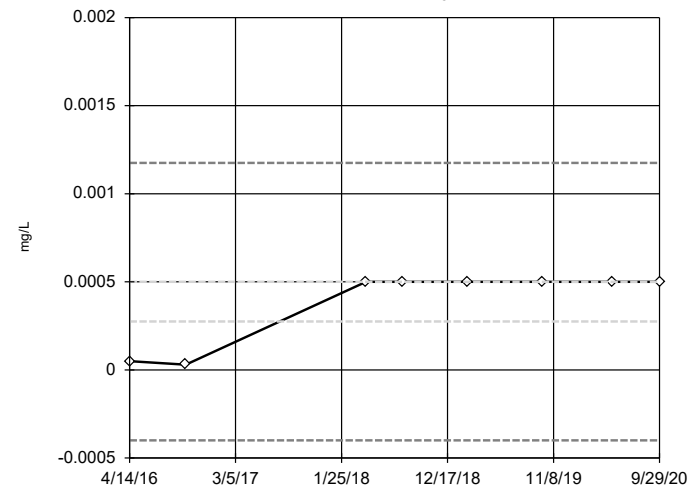
Tukey's Outlier Screening
MW-13R



n = 8
No outliers found.
Tukey's method selected by user.
The results were invalidated,
because the lower and upper
quartiles are equal.

Constituent: Selenium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

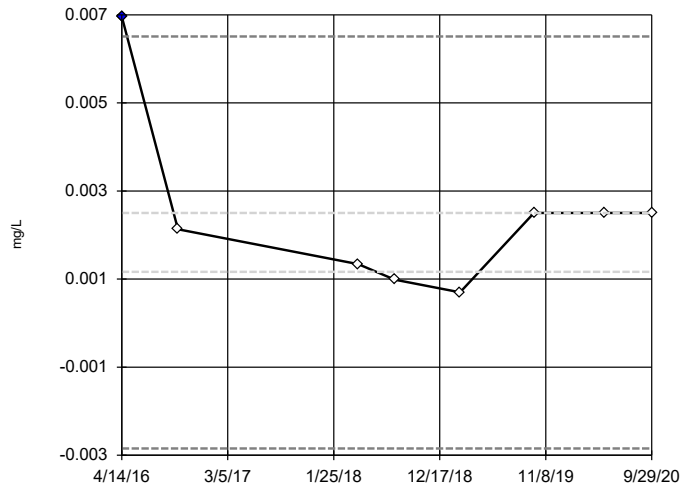
Tukey's Outlier Screening
MW-13R



n = 8
No outliers found.
Tukey's method selected by user.
High cutoff = 0.001175,
low cutoff = -0.0004,
based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

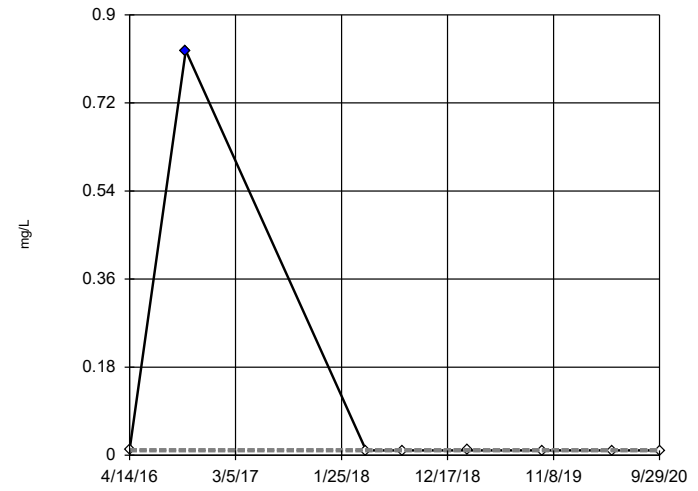
Tukey's Outlier Screening MW-13R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.006509,
low cutoff = -0.002846,
based on IQR multiplier
of 3.

Constituent: Vanadium Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening MW-13R



n = 8
Outlier is drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0122,
low cutoff = 0.00835,
based on IQR multiplier
of 3.

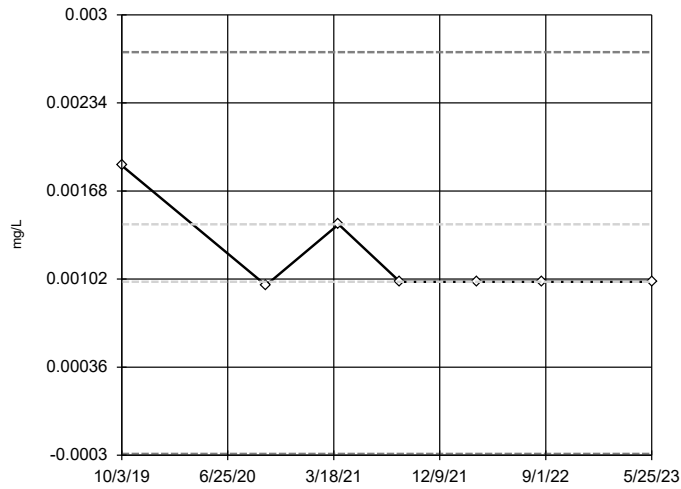
Constituent: Zinc Analysis Run 2/21/2025 1:15 AM View: 2024AWQR-MW-13R_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

MW-17 Outlier Analysis

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 1:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.001182	0.0003442	normal	ShapiroWilk
Arsenic (mg/L)	MW-17	Yes	0.000817,0.00148	10/3/2019,3/30/2021	NP	NaN	7	0.001051	0.0002038	normal	ShapiroWilk
Barium (mg/L)	MW-17	Yes	0.0774	10/3/2019	NP	NaN	7	0.03757	0.01817	normal	ShapiroWilk
Cadmium (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.0001131	0.00007018	normal	ShapiroWilk
Chromium (mg/L)	MW-17	Yes	0.0193	3/30/2021	NP	NaN	7	0.005007	0.006309	normal	ShapiroWilk
Cobalt (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.0007603	0.0004718	normal	ShapiroWilk
Copper (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.00296	0.001054	normal	ShapiroWilk
Lead (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.000916	0.0008067	normal	ShapiroWilk
Nickel (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.005147	0.003011	normal	ShapiroWilk
Selenium (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.001997	0.0006493	normal	ShapiroWilk
Thallium (mg/L)	MW-17	n/a	n/a	n/a	NP	NaN	7	0.0005226	0.00005972	unknown	ShapiroWilk
Vanadium (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.002236	0.0007494	normal	ShapiroWilk
Zinc (mg/L)	MW-17	No	n/a	n/a	NP	NaN	7	0.01489	0.005911	normal	ShapiroWilk

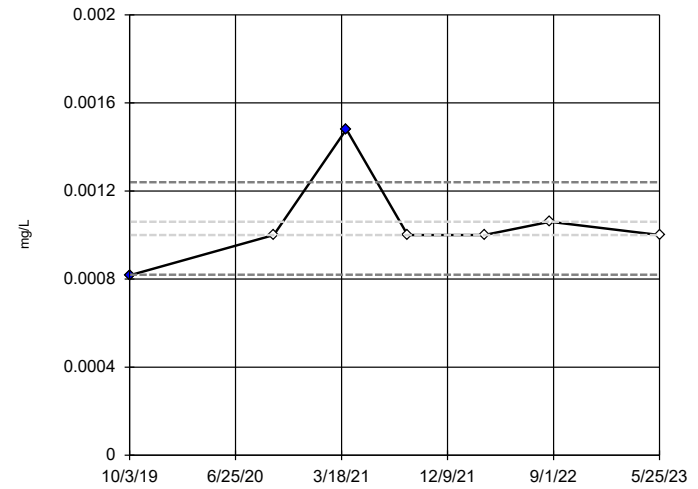
Tukey's Outlier Screening
MW-17



n = 7
No outliers found.
Tukey's method selected by user.
High cutoff = 0.00272,
low cutoff = -0.00029,
based on IQR multiplier
of 3.

Constituent: Antimony Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

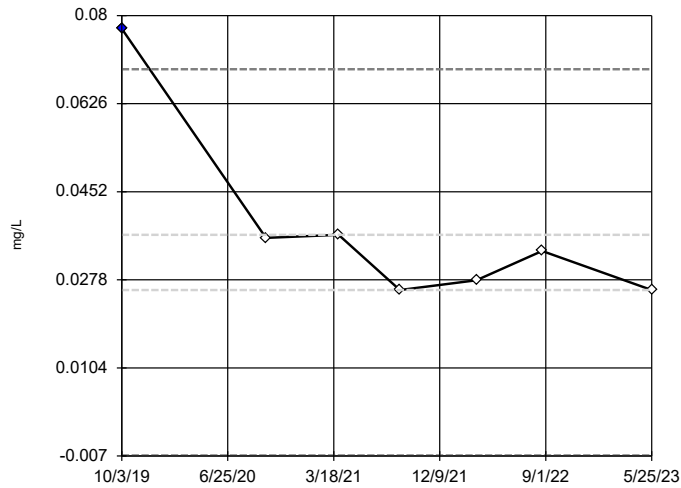
Tukey's Outlier Screening
MW-17



n = 7
Outliers are drawn as
solid.
Tukey's method selected
by user.
High cutoff = 0.00124,
low cutoff = 0.00082,
based on IQR multiplier
of 3.

Constituent: Arsenic Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

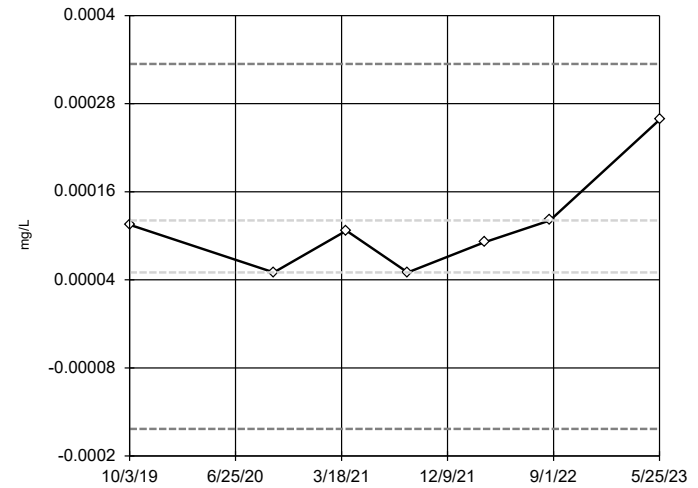
Tukey's Outlier Screening
MW-17



n = 7
Outlier is drawn as solid.
Tukey's method selected
by user.
High cutoff = 0.0694,
low cutoff = -0.0069,
based on IQR multiplier
of 3.

Constituent: Barium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

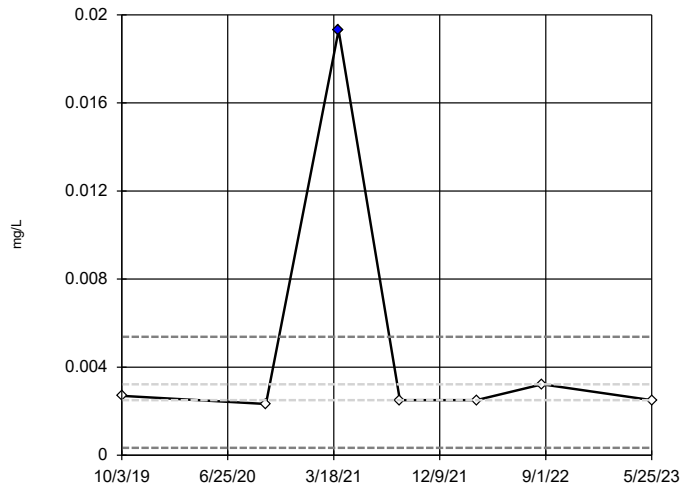
Tukey's Outlier Screening
MW-17



n = 7
No outliers found.
Tukey's method selected
by user.
High cutoff = 0.000334,
low cutoff = -0.000163,
based on IQR multiplier
of 3.

Constituent: Cadmium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

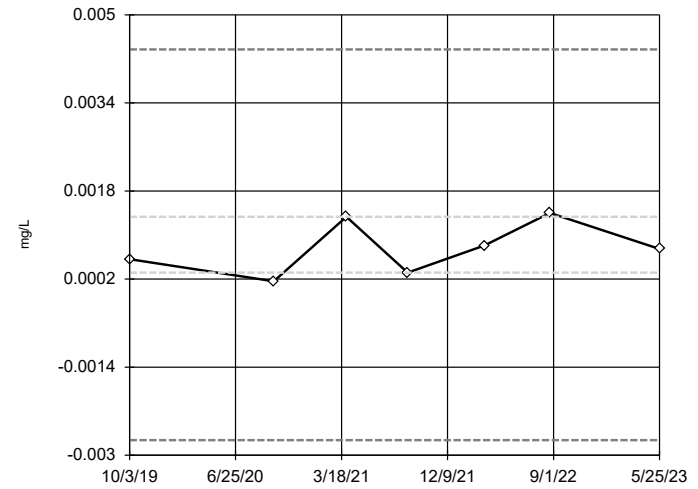
Tukey's Outlier Screening MW-17



n = 7
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.00538,
 low cutoff = 0.00034,
 based on IQR multiplier
 of 3.

Constituent: Chromium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

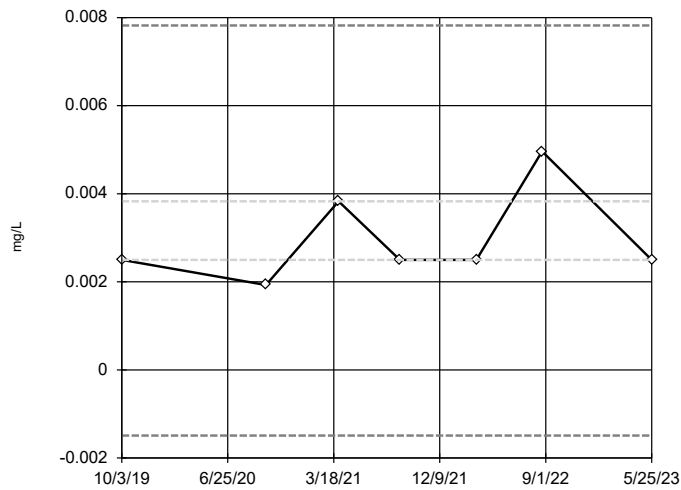
Tukey's Outlier Screening MW-17



n = 7
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.004372,
 low cutoff = -0.002726,
 based on IQR multiplier
 of 3.

Constituent: Cobalt Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

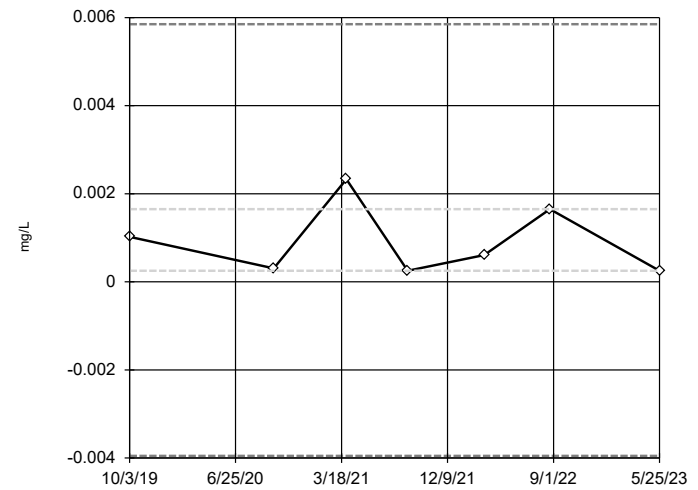
Tukey's Outlier Screening MW-17



n = 7
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00782,
 low cutoff = -0.00149,
 based on IQR multiplier
 of 3.

Constituent: Copper Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

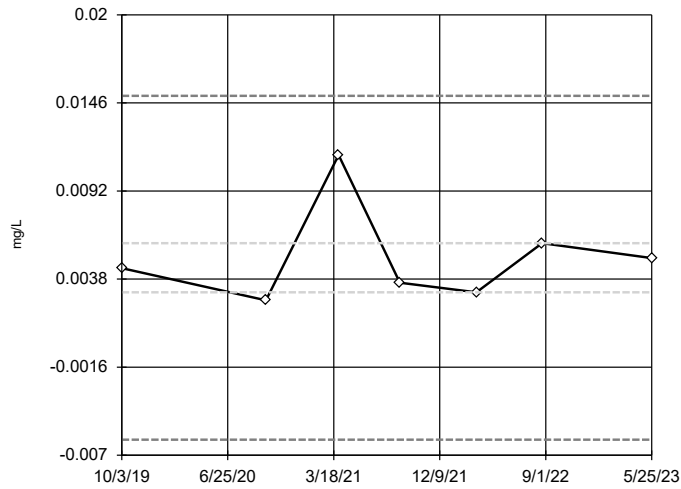
Tukey's Outlier Screening MW-17



n = 7
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00585,
 low cutoff = -0.00395,
 based on IQR multiplier
 of 3.

Constituent: Lead Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

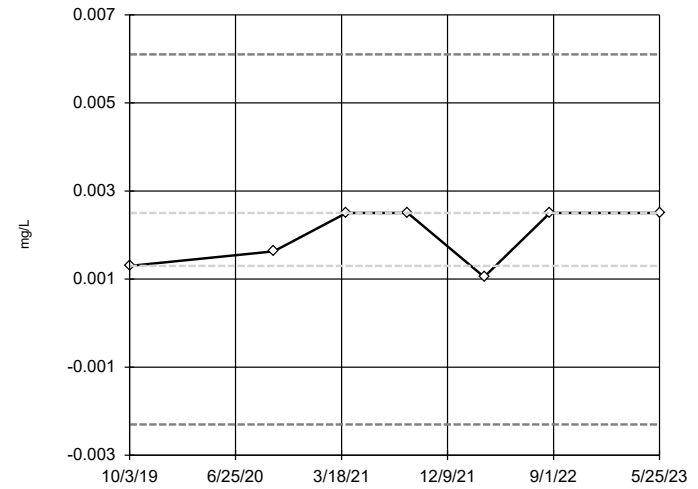
Tukey's Outlier Screening MW-17



n = 7
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01503,
low cutoff = -0.00604,
based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

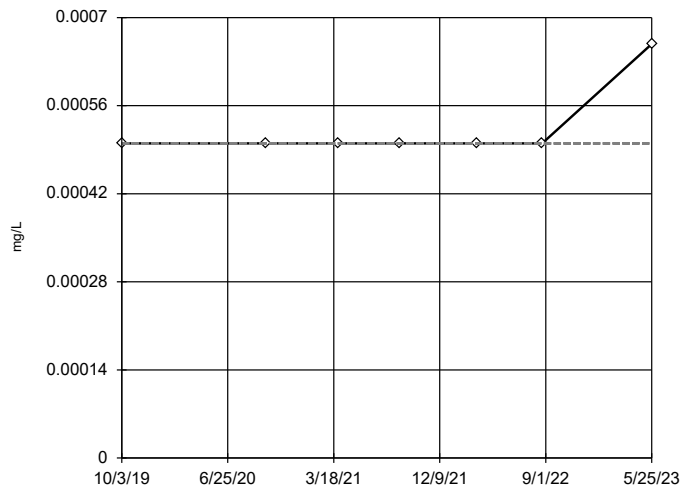
Tukey's Outlier Screening MW-17



n = 7
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0061,
low cutoff = -0.0023,
based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

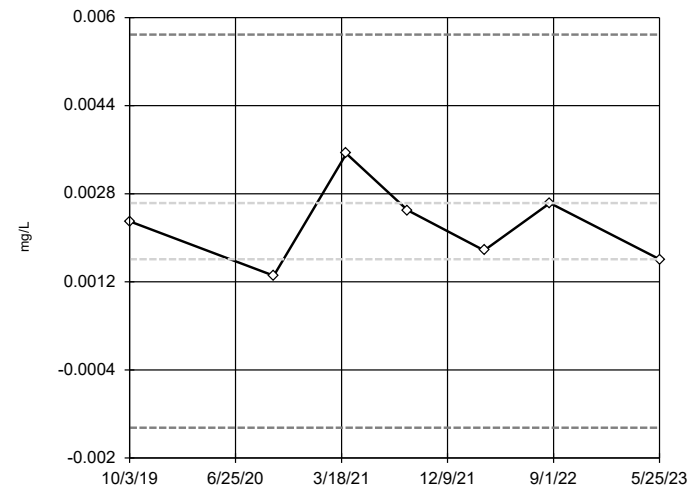
Tukey's Outlier Screening MW-17



n = 7
No outliers found.
Tukey's method selected by user.
The results were invalidated,
because the lower and upper
quartiles are equal.

Constituent: Thallium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening MW-17

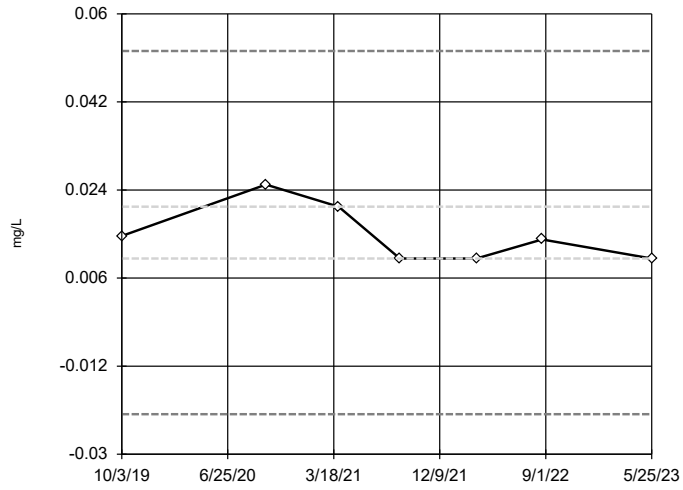


n = 7
No outliers found.
Tukey's method selected by user.
High cutoff = 0.00569,
low cutoff = -0.00145,
based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Tukey's Outlier Screening

MW-17




n = 7

No outliers found.
Tukey's method selected by user.

High cutoff = 0.0524,
low cutoff = -0.0218,
based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 2/21/2025 1:29 AM View: 2024AWQR-MW-17_Outliers
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master



Attachment B.3
Intrawell Prediction Limit

MW-10R Intra Prediction Limit

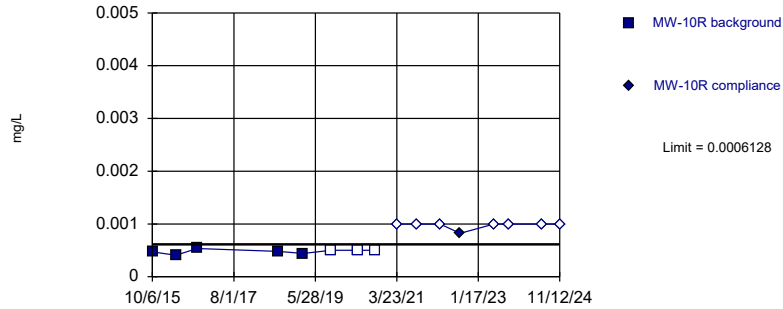
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 12:55 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-10R	0.0006128	n/a	11/12/2024	0.001ND	No	8	n/a	37.5	No	0.0004877	Param Intra 1 of 2
Arsenic (mg/L)	MW-10R	0.003896	n/a	11/12/2024	0.000674J	No	8	n/a	25	No	0.0004877	Param Intra 1 of 2
Barium (mg/L)	MW-10R	0.1917	n/a	11/12/2024	0.0644	No	8	n/a	0	No	0.0004877	Param Intra 1 of 2
Cadmium (mg/L)	MW-10R	0.004108	n/a	11/12/2024	0.0001ND	No	8	n/a	50	x^(1/3)	0.0004877	Param Intra 1 of 2
Chromium (mg/L)	MW-10R	0.0025	n/a	11/12/2024	0.0025ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	MW-10R	0.006237	n/a	11/12/2024	0.00019J	No	8	n/a	0	sqrt(x)	0.0004877	Param Intra 1 of 2
Copper (mg/L)	MW-10R	0.00893	n/a	11/12/2024	0.0025ND	No	8	n/a	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-10R	0.002199	n/a	11/12/2024	0.00025ND	No	8	n/a	25	No	0.0004877	Param Intra 1 of 2
Nickel (mg/L)	MW-10R	0.01894	n/a	11/12/2024	0.0025ND	No	8	n/a	37.5	x^(1/3)	0.0004877	Param Intra 1 of 2
Selenium (mg/L)	MW-10R	0.01259	n/a	11/12/2024	0.00636	No	8	n/a	0	No	0.0004877	Param Intra 1 of 2
Vanadium (mg/L)	MW-10R	0.006162	n/a	11/12/2024	0.00204J	No	8	n/a	0	No	0.0004877	Param Intra 1 of 2
Zinc (mg/L)	MW-10R	0.9426	n/a	11/12/2024	0.01ND	No	8	n/a	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit

Intrawell Parametric



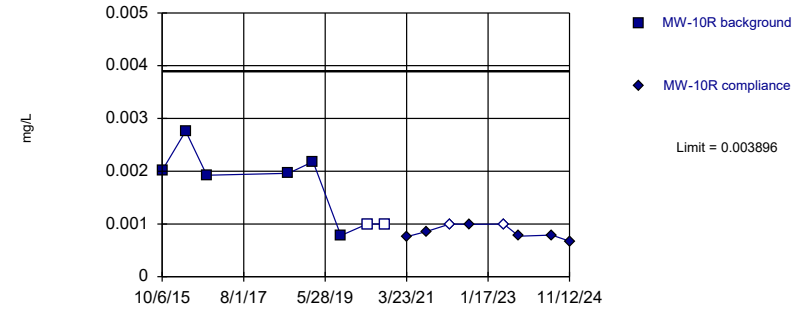
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0004662, Std. Dev.=0.00004296, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.94, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

Constituent: Antimony Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric



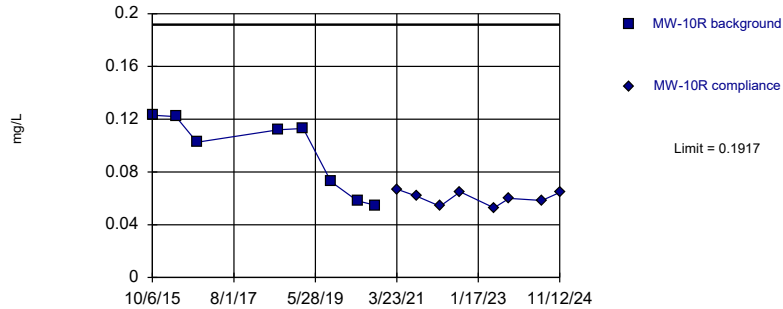
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001841, Std. Dev.=0.0006022, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9019, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

Constituent: Arsenic Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric



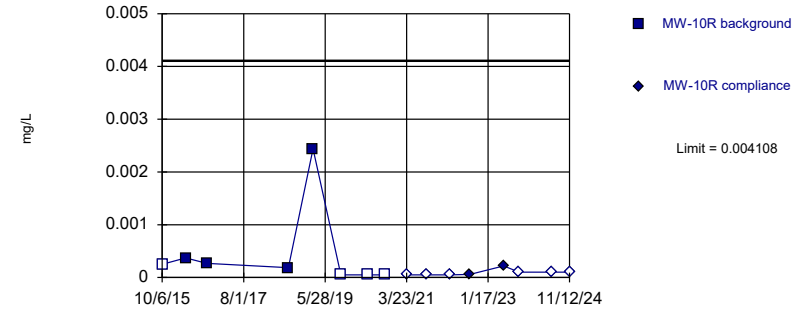
Background Data Summary: Mean=0.09476, Std. Dev.=0.02843, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8428, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

Constituent: Barium Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit

Intrawell Parametric

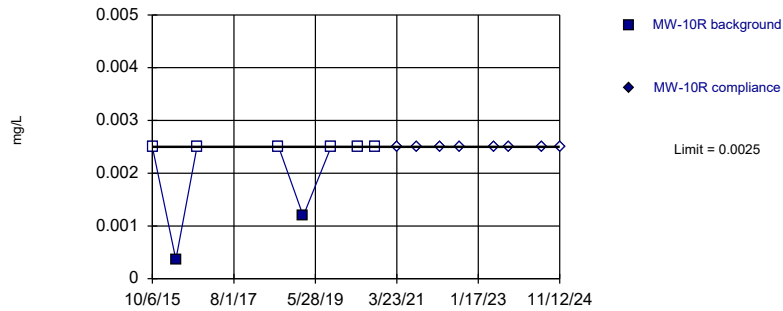


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.0653, Std. Dev.=0.02781, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7784, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

Constituent: Cadmium Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

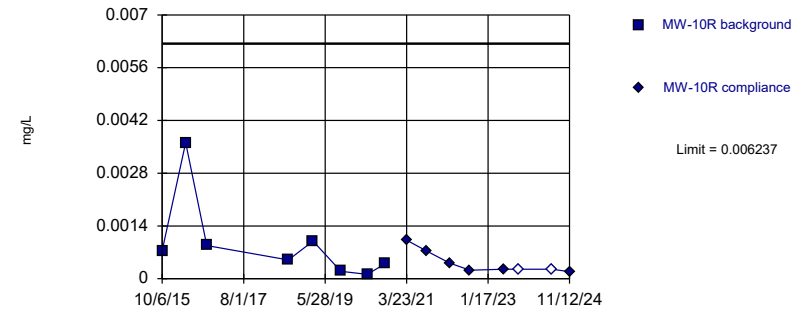


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Chromium Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

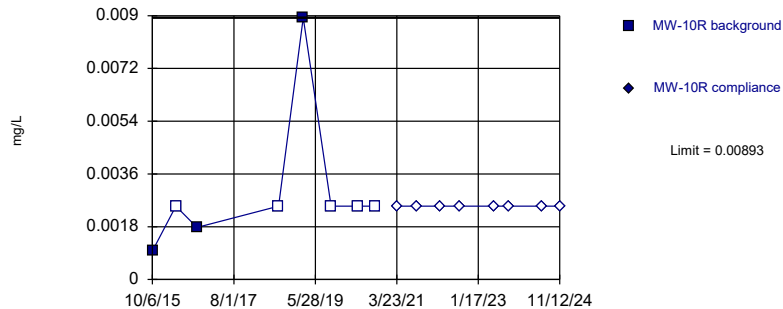


Background Data Summary (based on square root transformation): Mean=0.02696, Std. Dev.=0.01525, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8592, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

Constituent: Cobalt Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

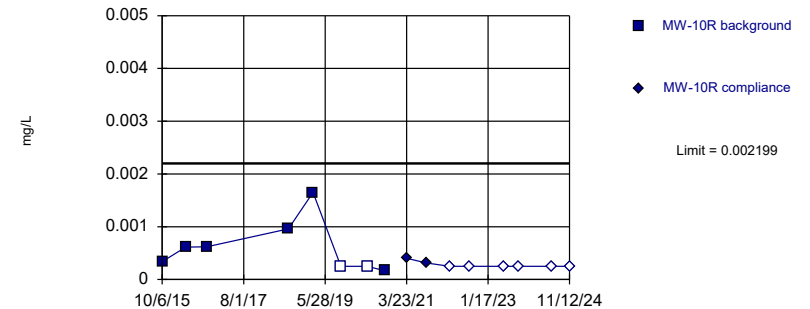


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Copper Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0006056, Std. Dev.=0.0004671, n=8, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8332, critical = 0.749. Kappa = 3.412 (c=12, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004877.

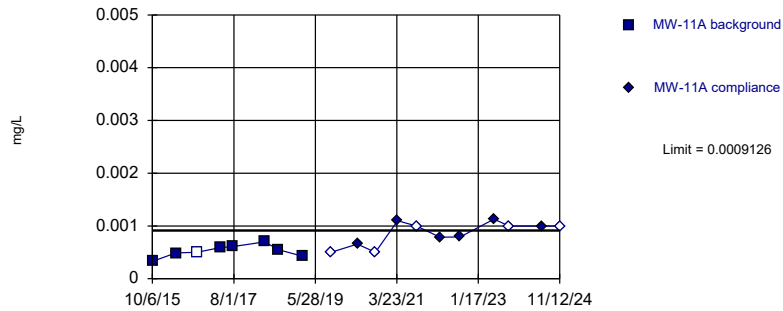
Constituent: Lead Analysis Run 2/21/2025 12:54 AM View: 2024AWQR-MW-10R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

MW-11A Intra Prediction Limit

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 1:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-11A	0.0009126	n/a	11/12/2024	0.001ND	No	8	n/a	12.5	No	0.000532	Param Intra 1 of 2
Arsenic (mg/L)	MW-11A	0.01896	n/a	11/12/2024	0.00617	No	8	n/a	0	No	0.000532	Param Intra 1 of 2
Barium (mg/L)	MW-11A	0.02731	n/a	11/12/2024	0.017	No	8	n/a	0	No	0.000532	Param Intra 1 of 2
Beryllium (mg/L)	MW-11A	0.0005	n/a	11/12/2024	0.0005ND	No	8	n/a	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-11A	0.0007128	n/a	11/12/2024	0.0004	No	8	n/a	0	No	0.000532	Param Intra 1 of 2
Cobalt (mg/L)	MW-11A	0.004071	n/a	11/12/2024	0.00203	No	8	n/a	0	No	0.000532	Param Intra 1 of 2
Lead (mg/L)	MW-11A	0.00101	n/a	11/12/2024	0.000285J	No	8	n/a	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-11A	0.02204	n/a	11/12/2024	0.0104	No	8	n/a	0	No	0.000532	Param Intra 1 of 2
Thallium (mg/L)	MW-11A	0.0005	n/a	11/12/2024	0.0005ND	No	8	n/a	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-11A	0.0025	n/a	11/12/2024	0.0025ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	MW-11A	1.19	n/a	11/12/2024	0.01ND	No	8	n/a	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2

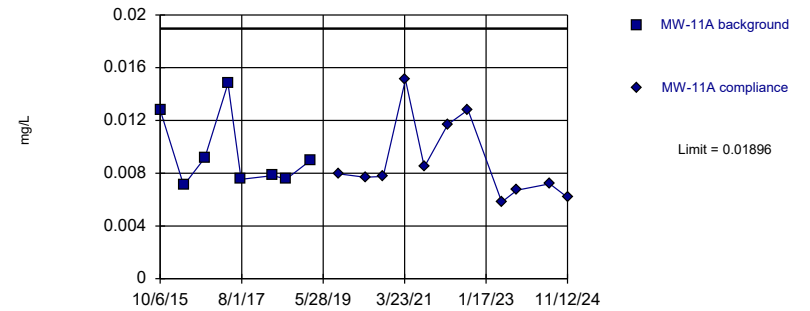
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.0005234, Std. Dev.=0.0001156, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9905, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Antimony Analysis Run 2/21/2025 1:08 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

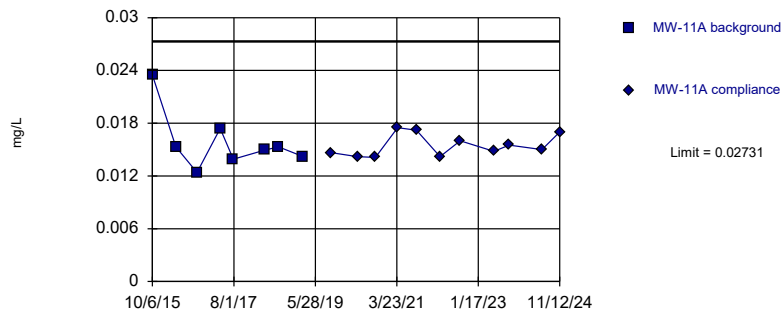
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.009469, Std. Dev.=0.002819, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8024, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Arsenic Analysis Run 2/21/2025 1:08 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

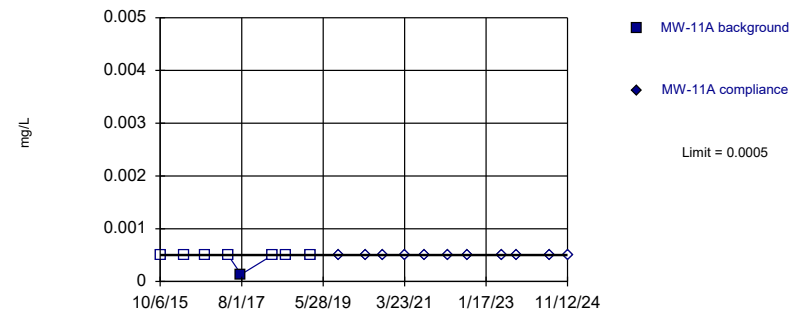
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01587, Std. Dev.=0.003397, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Barium Analysis Run 2/21/2025 1:08 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit Prediction Limit
Intrawell Non-parametric

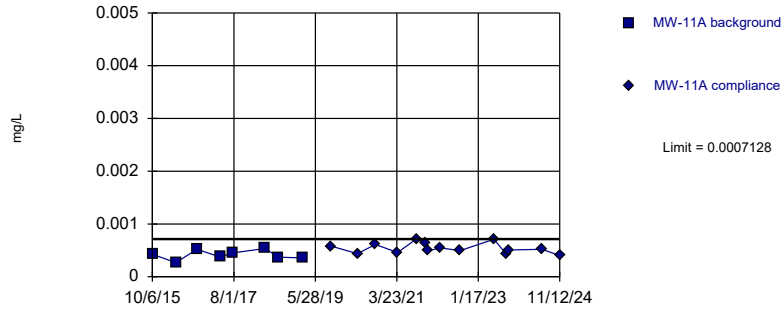


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Beryllium Analysis Run 2/21/2025 1:08 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

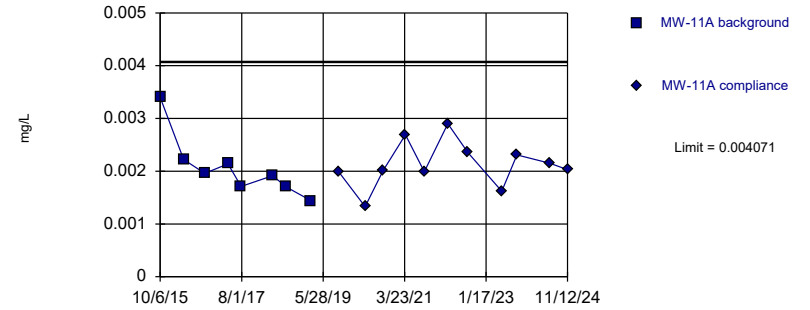


Background Data Summary: Mean=0.0004131, Std. Dev.=0.000089, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Cadmium Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

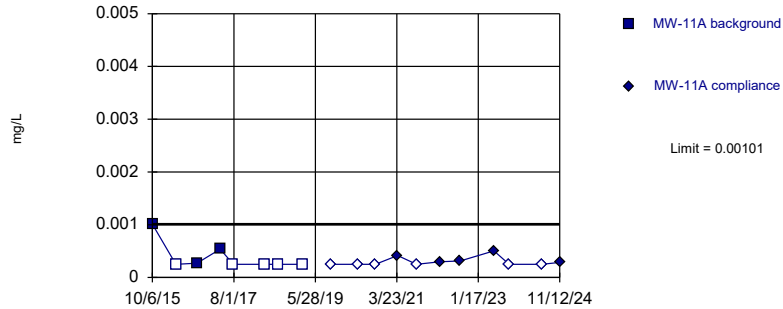


Background Data Summary: Mean=0.002061, Std. Dev.=0.000597, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8175, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Cobalt Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

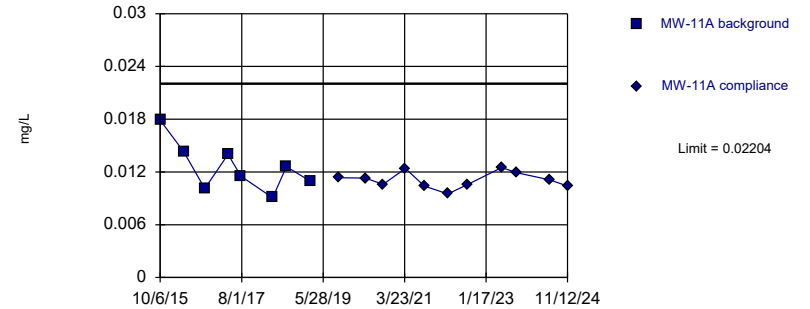


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Lead Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

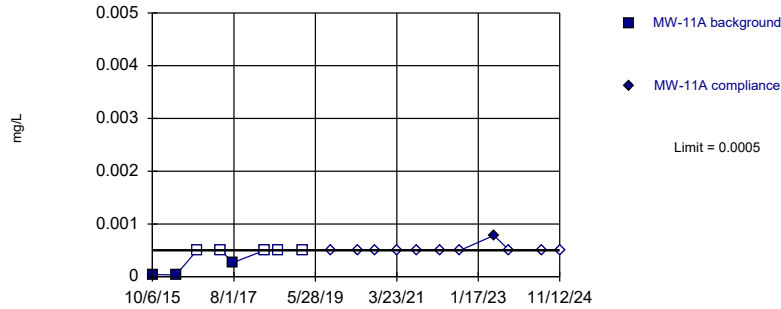


Background Data Summary: Mean=0.01255, Std. Dev.=0.002821, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.749. Kappa = 3.367 (c=11, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000532.

Constituent: Nickel Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Non-parametric

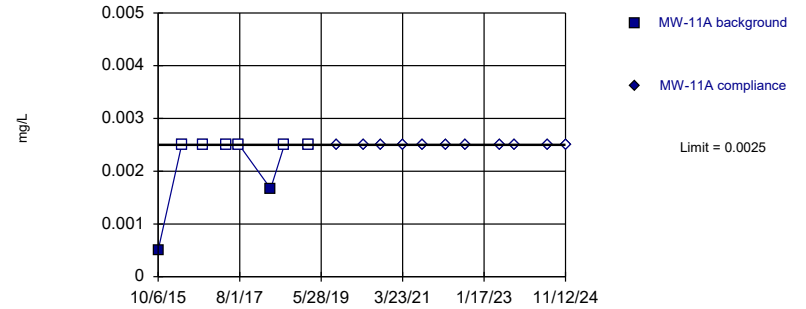


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Thallium Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Non-parametric

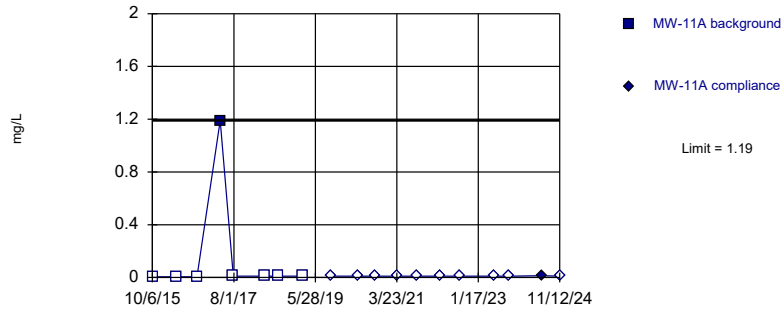


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Vanadium Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

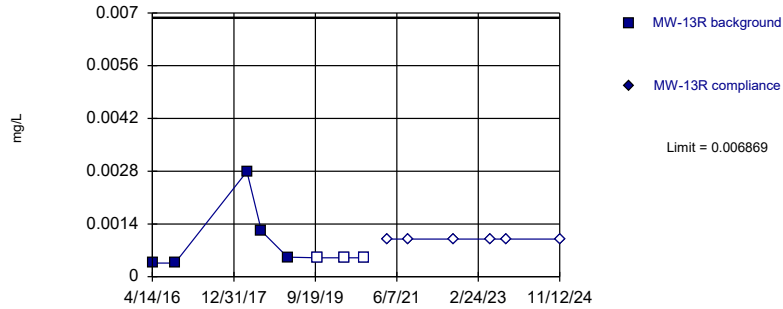
Constituent: Zinc Analysis Run 2/21/2025 1:09 AM View: 2024AWQR-MW-11A_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

MW-13R Intra Prediction Limit

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 1:22 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-13R	0.006869	n/a	11/12/2024	0.001ND	No	8	n/a	37.5	ln(x)	0.000418	Param Intra 1 of 2
Arsenic (mg/L)	MW-13R	0.008603	n/a	11/12/2024	0.0014J	No	8	n/a	12.5	No	0.000418	Param Intra 1 of 2
Barium (mg/L)	MW-13R	1.1	n/a	11/12/2024	0.0969	No	8	n/a	0	sqrt(x)	0.000418	Param Intra 1 of 2
Beryllium (mg/L)	MW-13R	0.0005	n/a	11/12/2024	0.0005ND	No	8	n/a	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	MW-13R	0.000639	n/a	11/12/2024	0.0001ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Chromium (mg/L)	MW-13R	0.005078	n/a	11/12/2024	0.0025ND	No	8	n/a	37.5	No	0.000418	Param Intra 1 of 2
Cobalt (mg/L)	MW-13R	0.01775	n/a	11/12/2024	0.000352J	No	8	n/a	0	x^(1/3)	0.000418	Param Intra 1 of 2
Copper (mg/L)	MW-13R	0.0057	n/a	11/12/2024	0.0025ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Lead (mg/L)	MW-13R	0.00635	n/a	11/12/2024	0.00025ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Nickel (mg/L)	MW-13R	0.09837	n/a	11/12/2024	0.0025ND	No	8	n/a	37.5	ln(x)	0.000418	Param Intra 1 of 2
Selenium (mg/L)	MW-13R	0.0025	n/a	11/12/2024	0.0025ND	No	8	n/a	87.5	n/a	0.02144	NP Intra (NDs) 1 of 2
Thallium (mg/L)	MW-13R	0.0005	n/a	11/12/2024	0.0005ND	No	8	n/a	75	n/a	0.02144	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	MW-13R	0.008794	n/a	11/12/2024	0.0025ND	No	8	n/a	37.5	No	0.000418	Param Intra 1 of 2
Zinc (mg/L)	MW-13R	0.827	n/a	11/12/2024	0.01ND	No	8	n/a	62.5	n/a	0.02144	NP Intra (NDs) 1 of 2

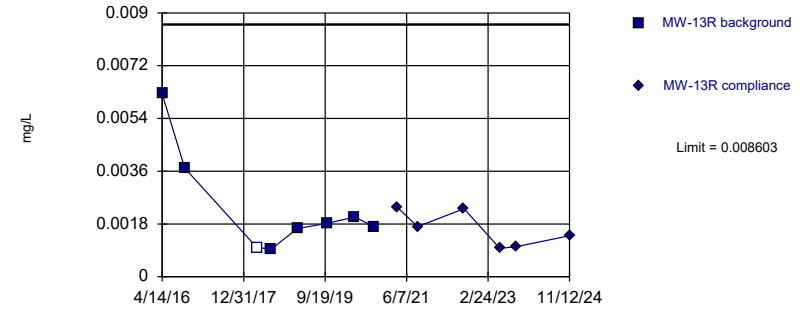
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-7.427, Std. Dev.=0.6989, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7628, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Antimony Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

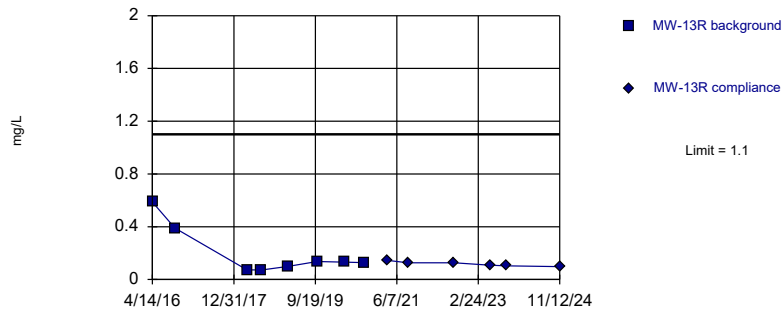
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.002388, Std. Dev.=0.001776, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7771, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Arsenic Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

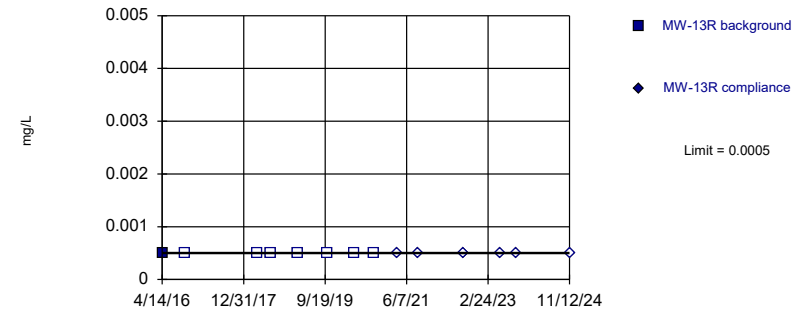
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.4162, Std. Dev.=0.1808, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7866, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Barium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit Prediction Limit
Intrawell Non-parametric

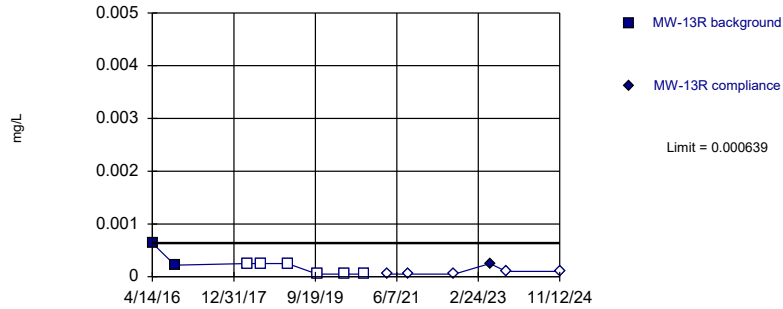


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Beryllium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

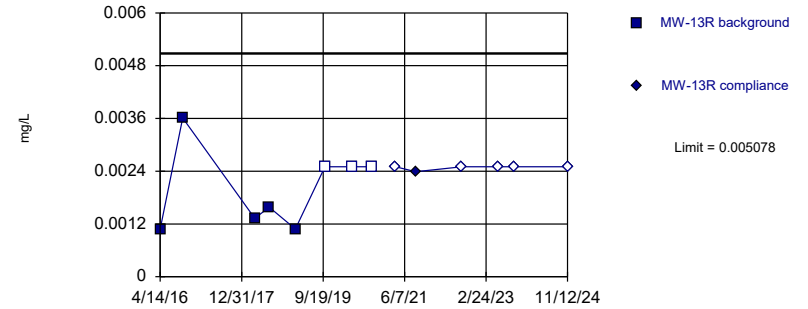


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Cadmium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

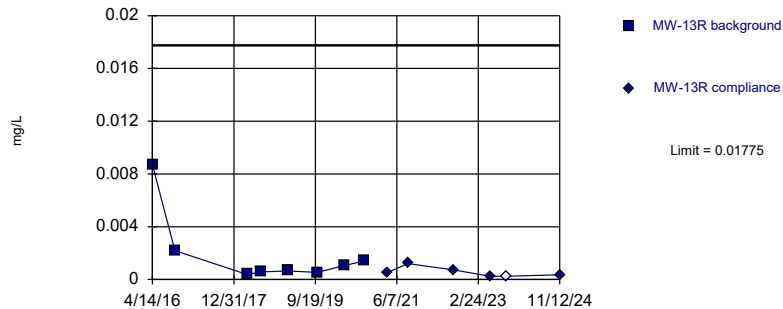


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001737, Std. Dev.=0.0009545, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8841, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Chromium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

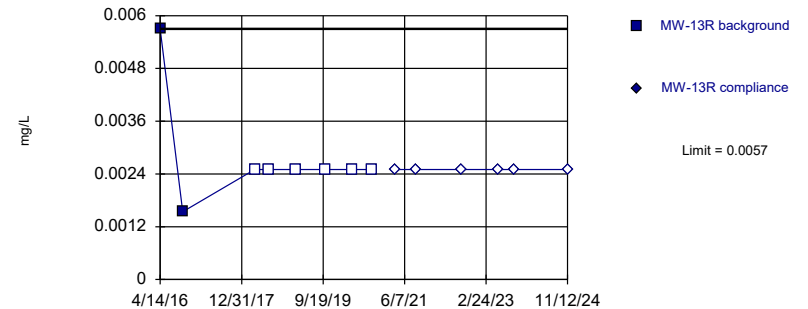


Background Data Summary (based on cube root transformation): Mean=0.1092, Std. Dev.=0.04332, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7911, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Cobalt Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

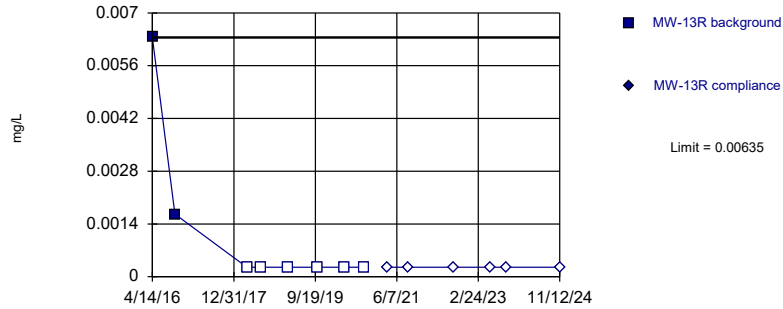


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Copper Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

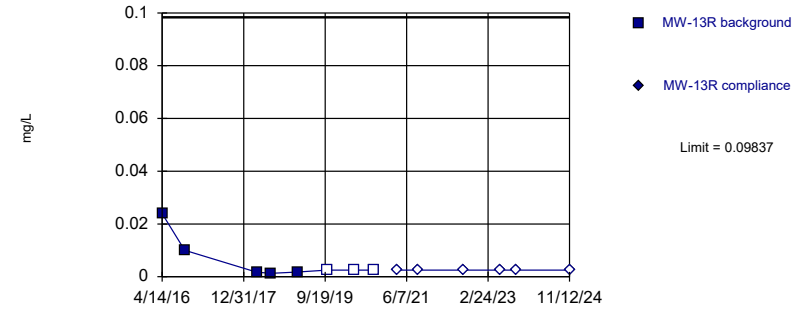


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Lead Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Parametric

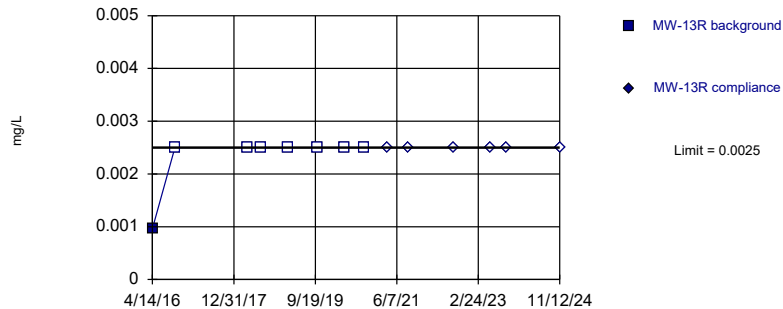


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.876, Std. Dev.=1.016, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8013, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Nickel Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

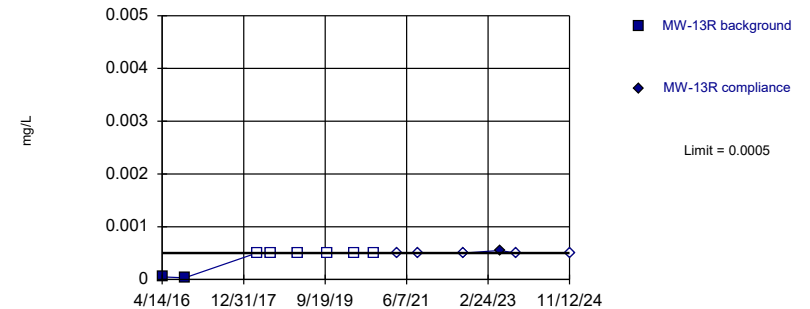


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Selenium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
Intrawell Non-parametric

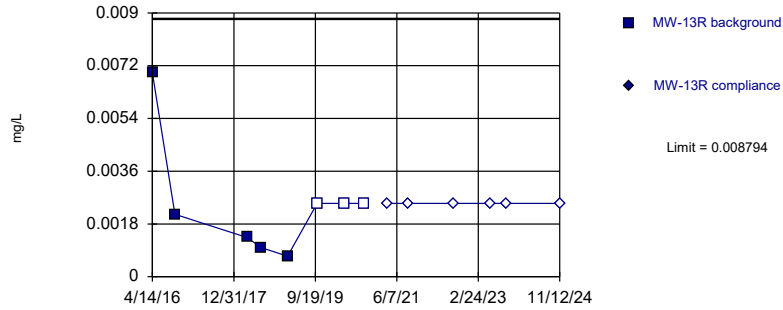


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Thallium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Within Limit

Prediction Limit
 Intrawell Parametric

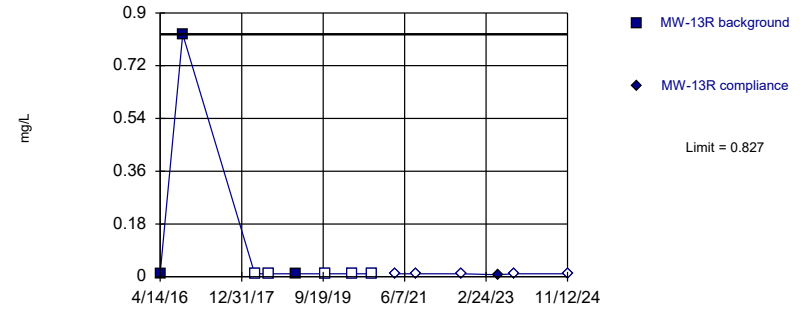


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001998, Std. Dev.=0.001941, n=8, 37.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7501, critical = 0.749. Kappa = 3.501 (c=14, w=9, 1 of 2, event alpha = 0.05132). Report alpha = 0.000418.

Constituent: Vanadium Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master


Within Limit

Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Zinc Analysis Run 2/21/2025 1:21 AM View: 2024AWQR-MW-13R_IntraPL
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master



Attachment B.4
Interwell Prediction Limits

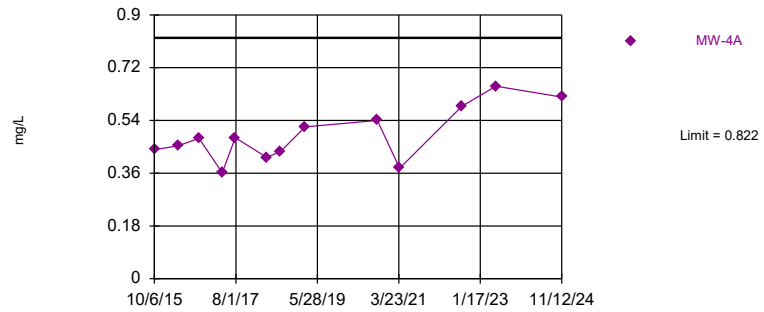
AM Prediction Limit

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master Printed 2/21/2025, 10:33 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	MW-4A	0.822	n/a	11/12/2024	0.62	No	25	MW-14,MW-1A	0	n/a	0.002595	NP Inter (normality) ...

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. Annual per-constituent alpha = 0.04569. Individual comparison alpha = 0.002595 (1 of 2). Assumes 8 future values.

Constituent: Barium Analysis Run 2/21/2025 10:31 AM View: 2024AWQR-AM_Interwell_PL
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW PRIME Master

Attachment B.5

Sen's Slope/Mann-Kendall Trend Analysis

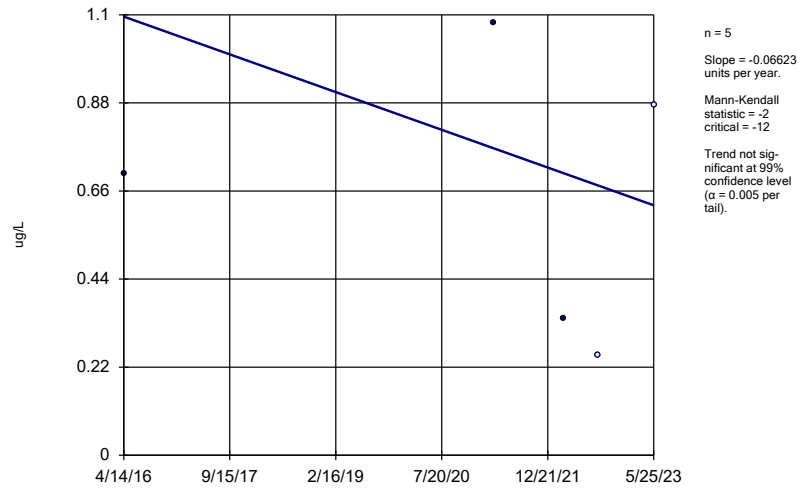
Trend Test

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM Printed 2/21/2025, 11:47 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
2,4,5-TP [Silvex] [2C] (ug/L)	MW-12B	-0.06623	-2	-12	No	5	40	0.01	NP
Antimony (mg/L)	MW-5A	0.00002313	2	21	No	8	50	0.01	NP
Antimony (mg/L)	MW-12B	0.0001602	14	21	No	8	62.5	0.01	NP
Arsenic (mg/L)	MW-4A	0.00009971	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-5A	0.00006731	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-12B	0.00008316	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-4A	0.03537	18	21	No	8	0	0.01	NP
Barium (mg/L)	MW-5A	0.004	4	21	No	8	0	0.01	NP
Barium (mg/L)	MW-12B	0.01763	10	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-12B	-0.02902	0	21	No	8	12.5	0.01	NP
Beryllium (mg/L)	MW-12B	-8.3e-7	-3	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-12B	0.0003281	7	21	No	8	37.5	0.01	NP
Carbon disulfide (ug/L)	MW-4A	-0.09986	-10	-21	No	8	50	0.01	NP
Carbon disulfide (ug/L)	MW-5A	-0.02158	-1	-21	No	8	25	0.01	NP
Chlorobenzene (ug/L)	MW-12B	0.02582	5	21	No	8	37.5	0.01	NP
Chloromethane (ug/L)	MW-12B	0	5	21	No	8	75	0.01	NP
Chromium (mg/L)	MW-12B	0.004208	14	21	No	8	62.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-12B	-0.251	-12	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-4A	0.00002166	6	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-5A	0.0009639	22	21	Yes	8	0	0.01	NP
Cobalt (mg/L)	MW-12B	0.001747	10	21	No	8	0	0.01	NP
Copper (mg/L)	MW-5A	-0.0005889	-5	-21	No	8	37.5	0.01	NP
Copper (mg/L)	MW-12B	0.01609	15	21	No	8	25	0.01	NP
Di-n-butyl phthalate (ug/L)	MW-4A	0.3905	4	8	No	4	75	0.01	NP
Lead (mg/L)	MW-4A	0.00005845	9	21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-5A	0.00008538	11	21	No	8	25	0.01	NP
Lead (mg/L)	MW-12B	0.0005645	16	21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-4A	0.0000349	3	21	No	8	25	0.01	NP
Nickel (mg/L)	MW-5A	0.001524	10	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12B	0.0103	6	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-12B	0.0001294	22	21	Yes	8	50	0.01	NP
Vanadium (mg/L)	MW-12B	0.0008724	22	21	Yes	8	12.5	0.01	NP
Zinc (mg/L)	MW-4A	0	5	21	No	8	87.5	0.01	NP
Zinc (mg/L)	MW-5A	0	0	21	No	8	50	0.01	NP
Zinc (mg/L)	MW-12B	0.005119	19	21	No	8	25	0.01	NP

Sen's Slope Estimator

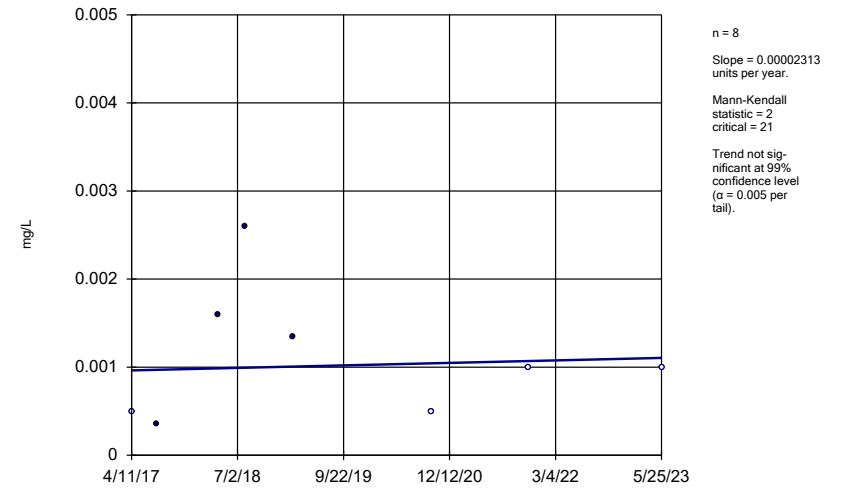
MW-12B



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

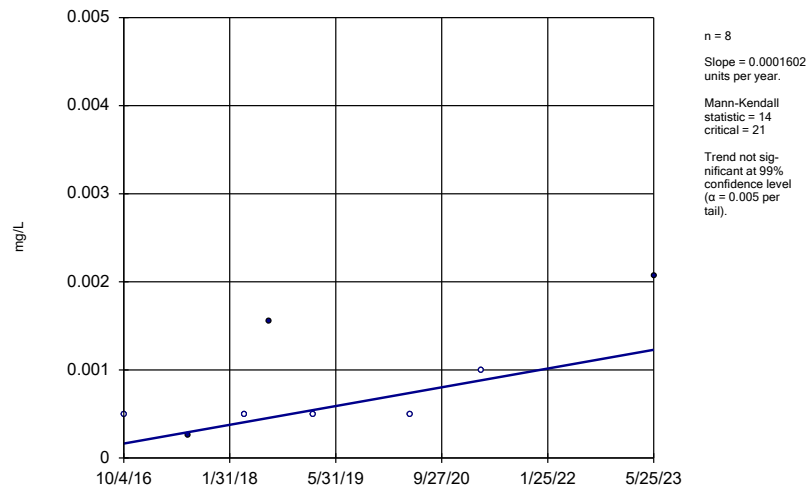
MW-5A



Constituent: Antimony Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

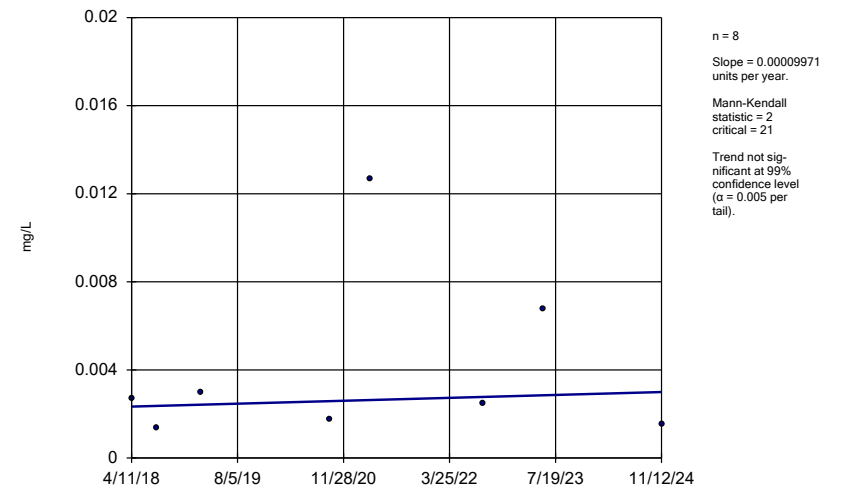
MW-12B



Constituent: Antimony Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

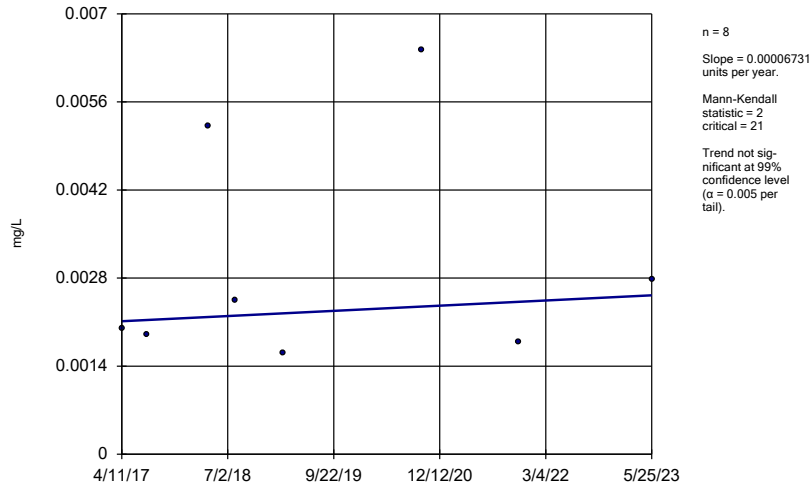
MW-4A



Constituent: Arsenic Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

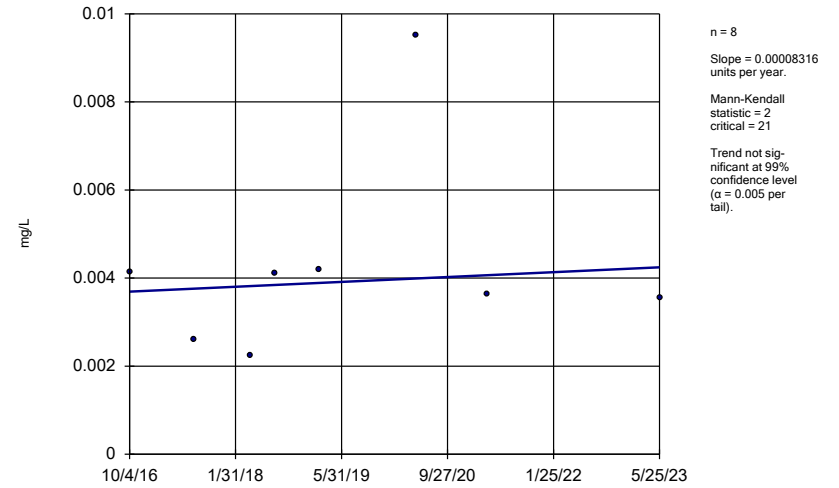
MW-5A



Constituent: Arsenic Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

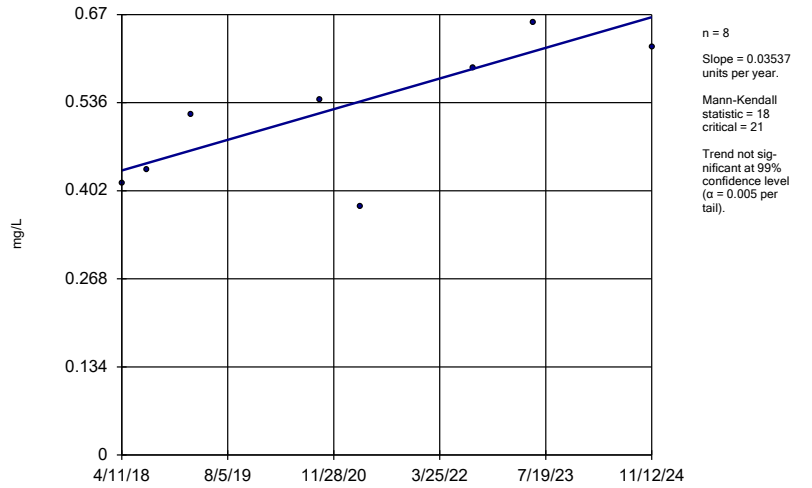
MW-12B



Constituent: Arsenic Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

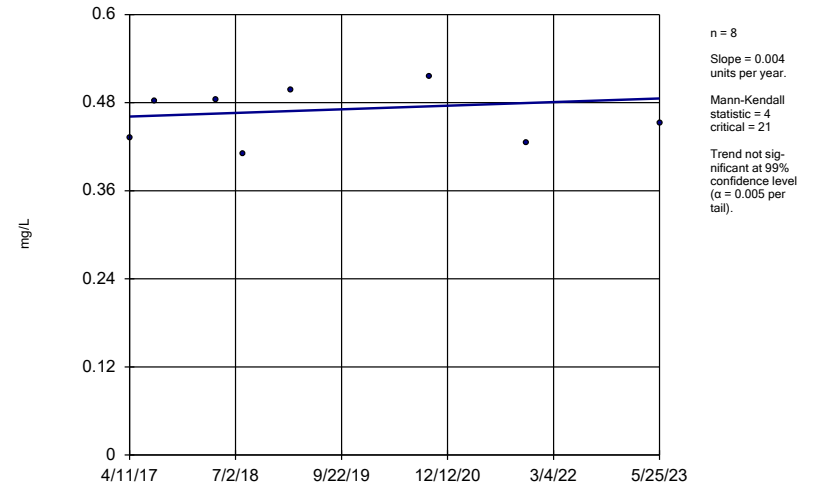
MW-4A



Constituent: Barium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

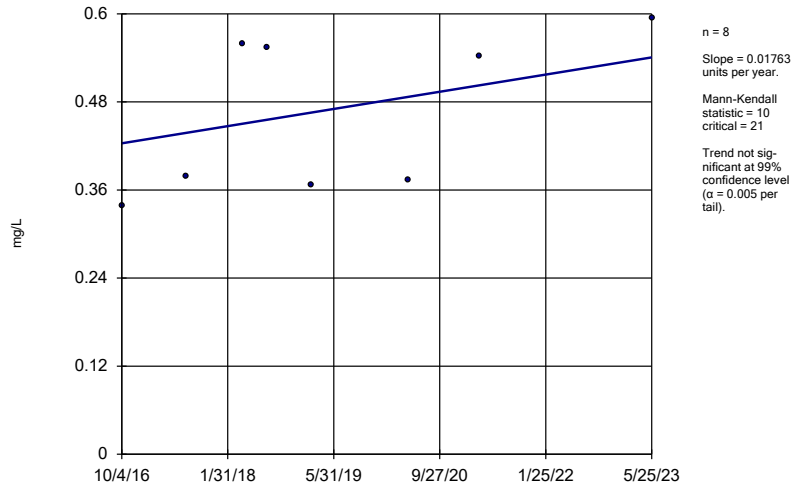
MW-5A



Constituent: Barium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

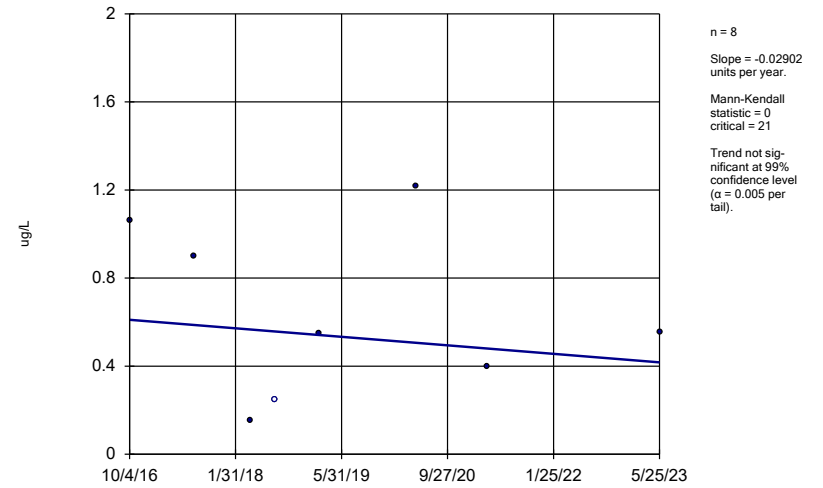
MW-12B



Constituent: Barium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

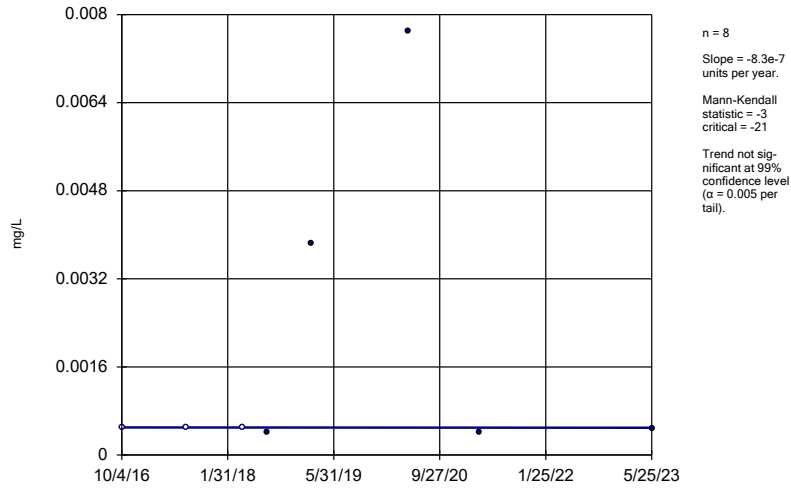
MW-12B



Constituent: Benzene Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

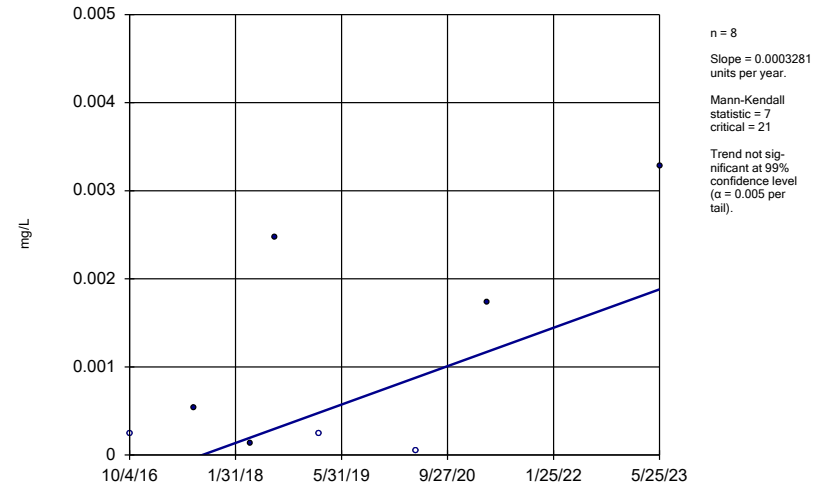
MW-12B



Constituent: Beryllium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

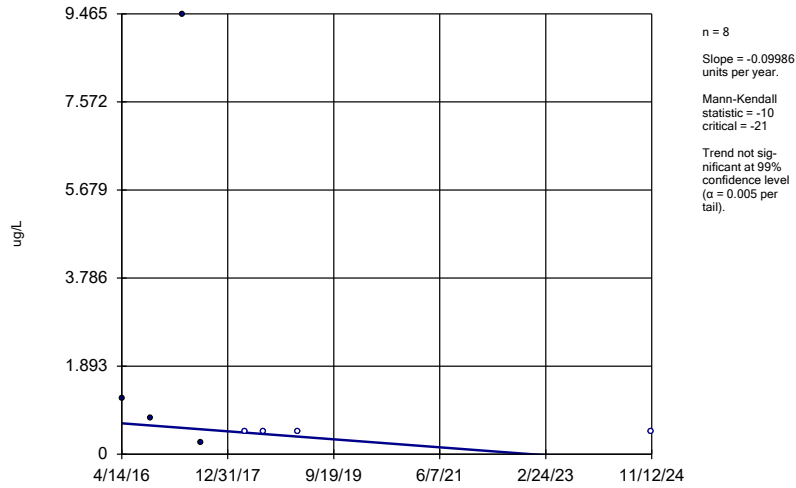
MW-12B



Constituent: Cadmium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

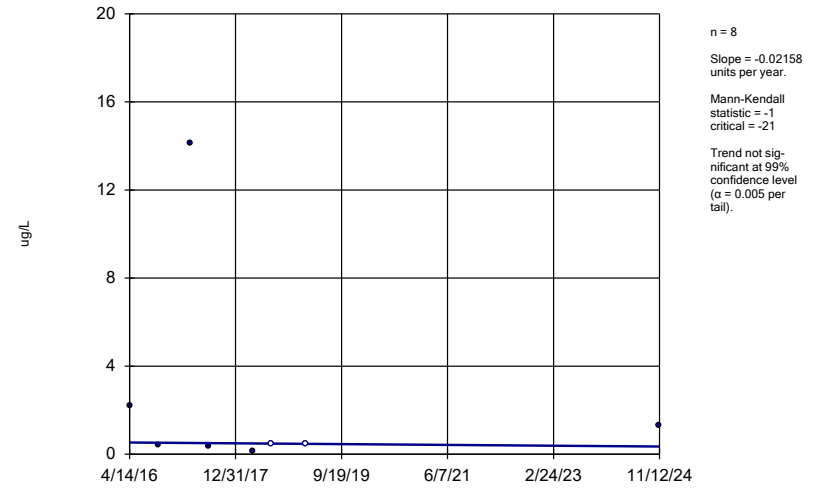
MW-4A



Constituent: Carbon disulfide Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

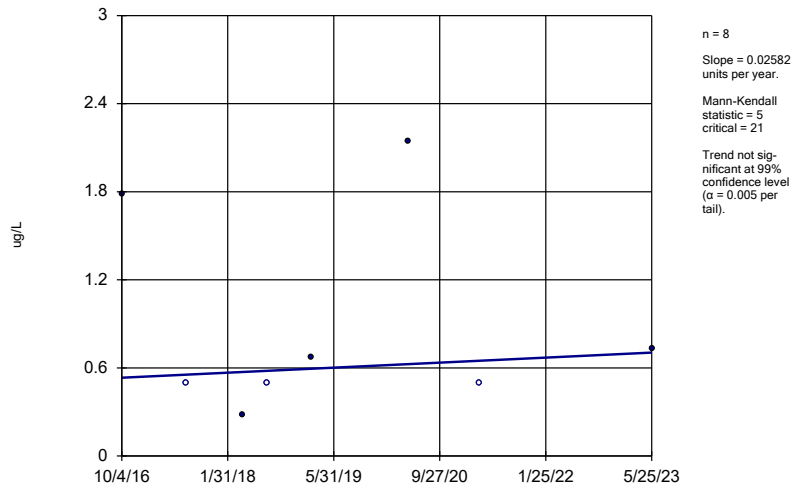
MW-5A



Constituent: Carbon disulfide Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

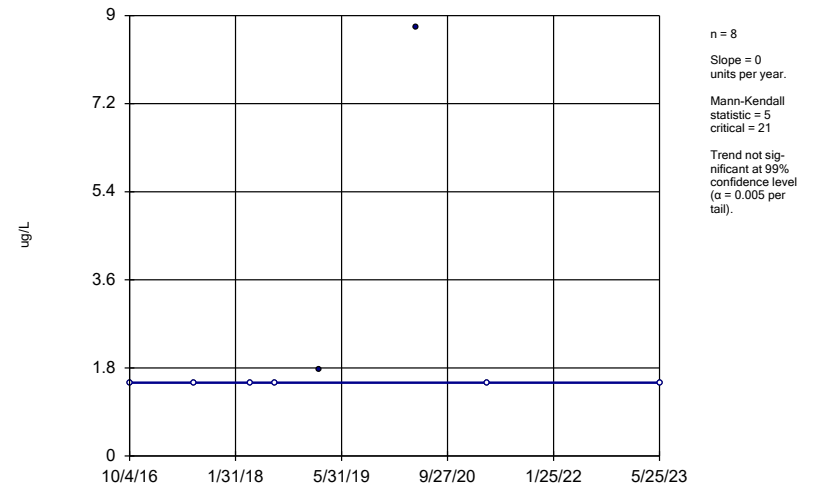
MW-12B



Constituent: Chlorobenzene Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

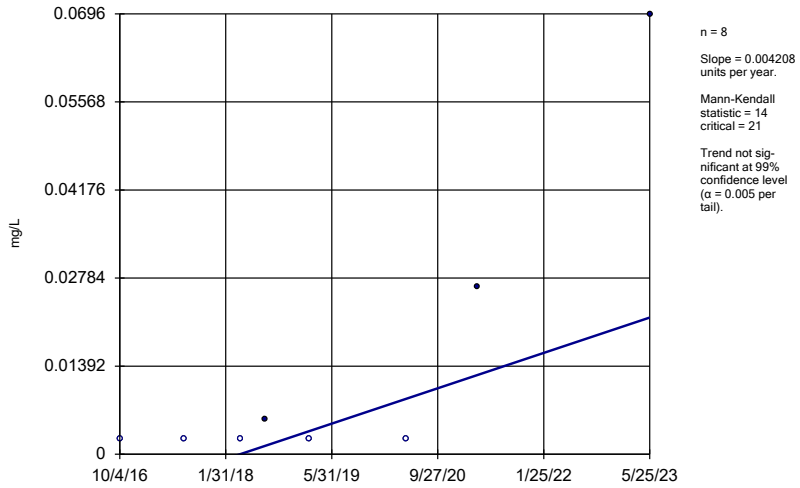
MW-12B



Constituent: Chloromethane Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

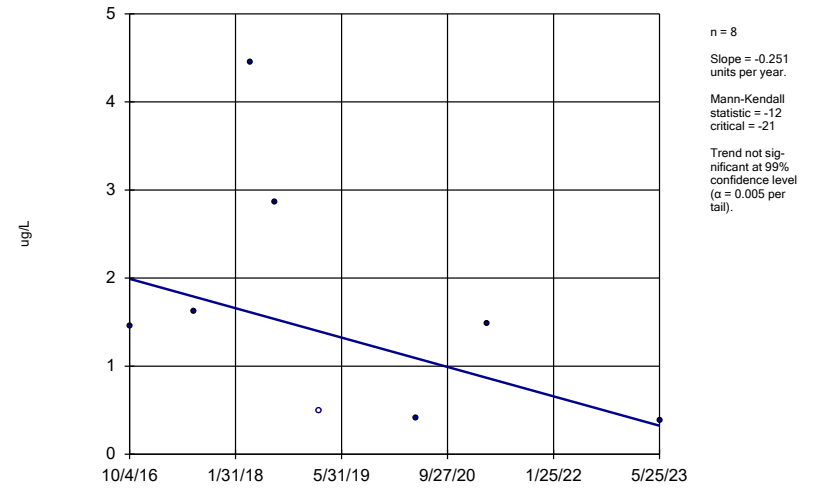
MW-12B



Constituent: Chromium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

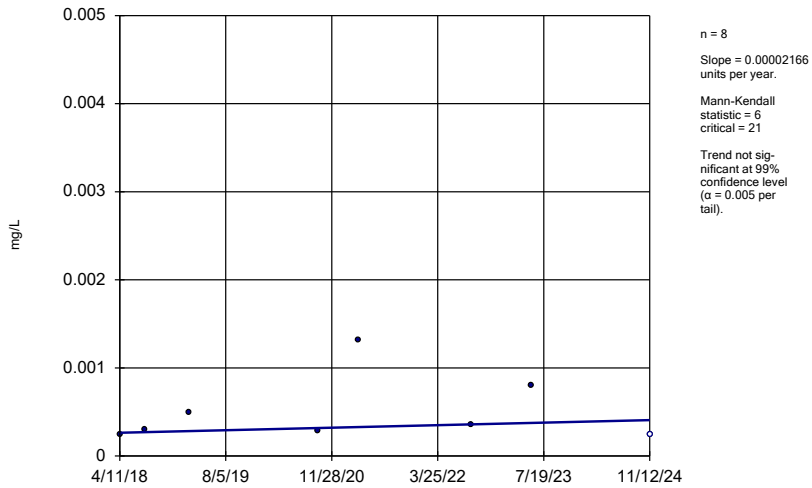
MW-12B



Constituent: cis-1,2-Dichloroethene Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

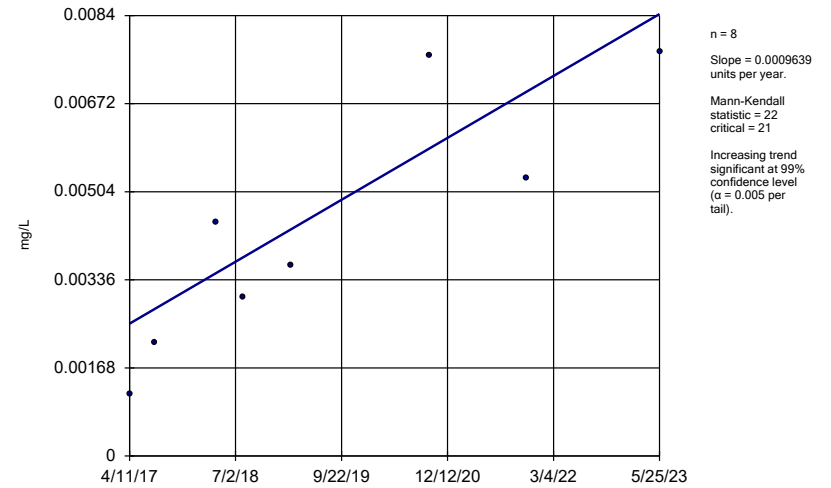
MW-4A



Constituent: Cobalt Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

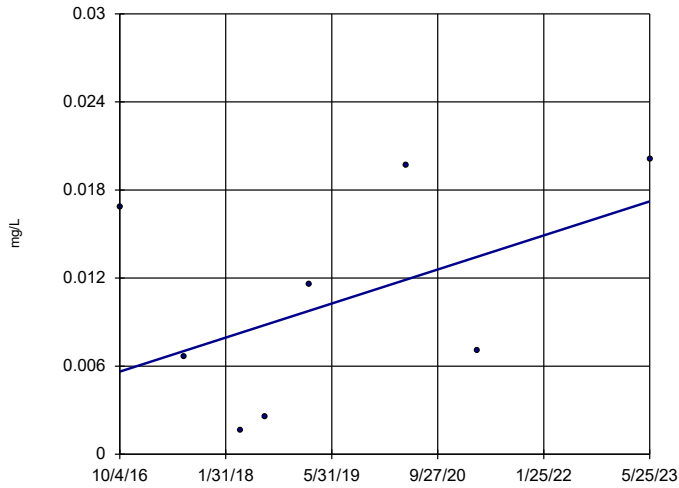
MW-5A



Constituent: Cobalt Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

MW-12B



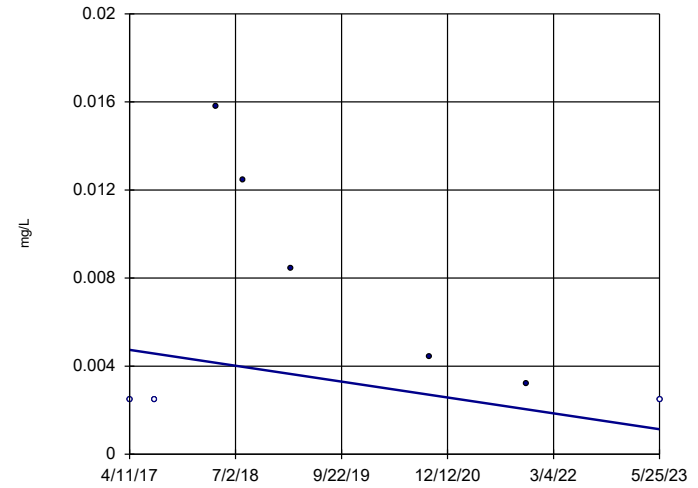
n = 8
 Slope = 0.001747 units per year.
 Mann-Kendall statistic = 10
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5A

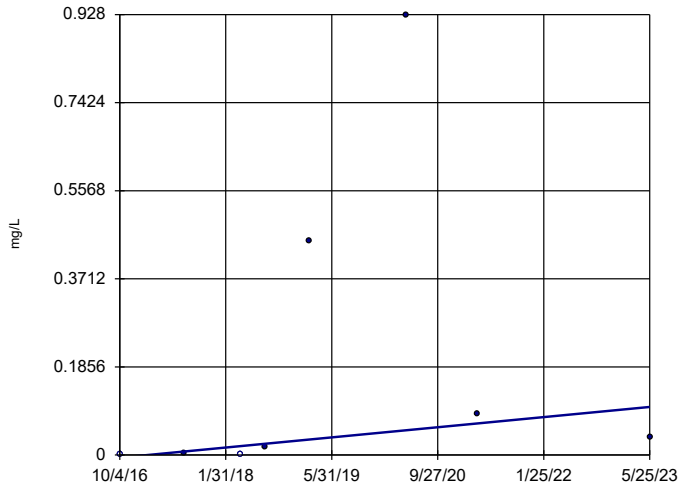


n = 8
 Slope = -0.0005889 units per year.
 Mann-Kendall statistic = -5
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

MW-12B

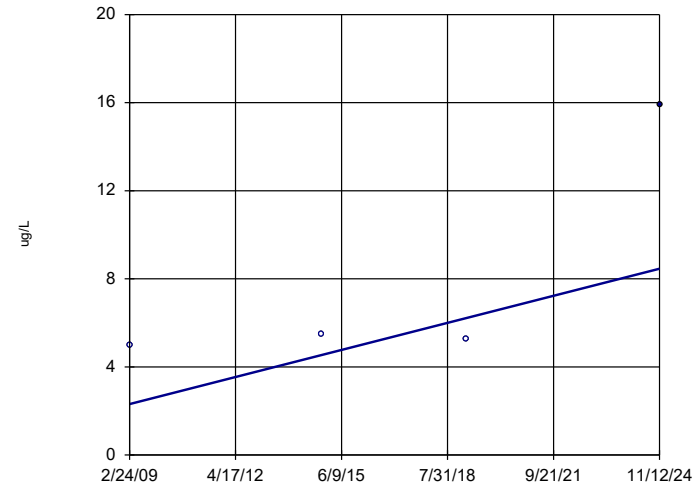


n = 8
 Slope = 0.01609 units per year.
 Mann-Kendall statistic = 15
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

MW-4A

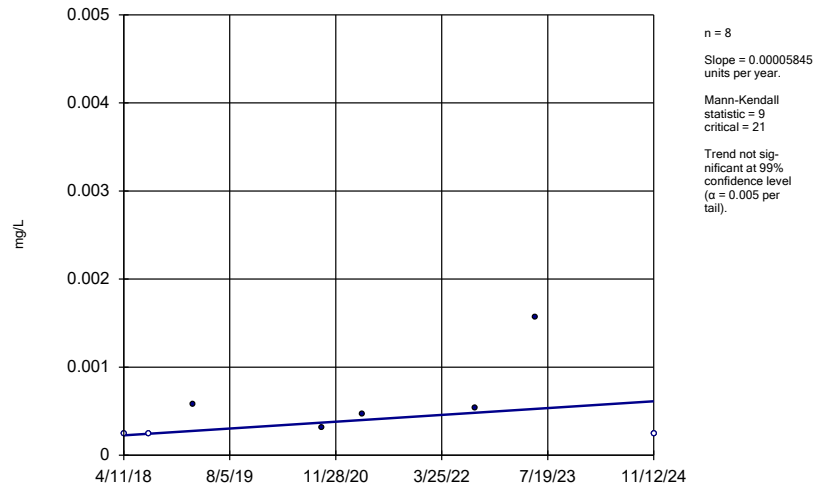


n = 4
 Slope = 0.3905 units per year.
 Mann-Kendall statistic = 4
 critical = 8
 Trend not significant at 99% confidence level (α = 0.005 per tail).
 With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Di-n-butyl phthalate Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

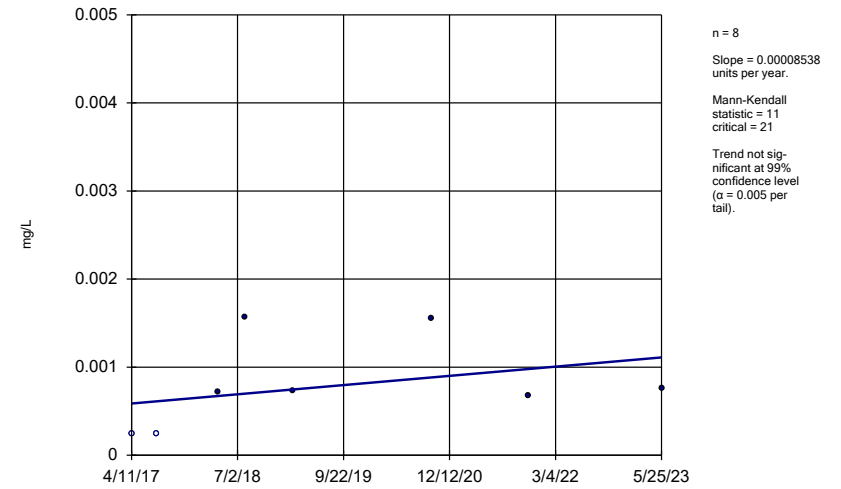
MW-4A



Constituent: Lead Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

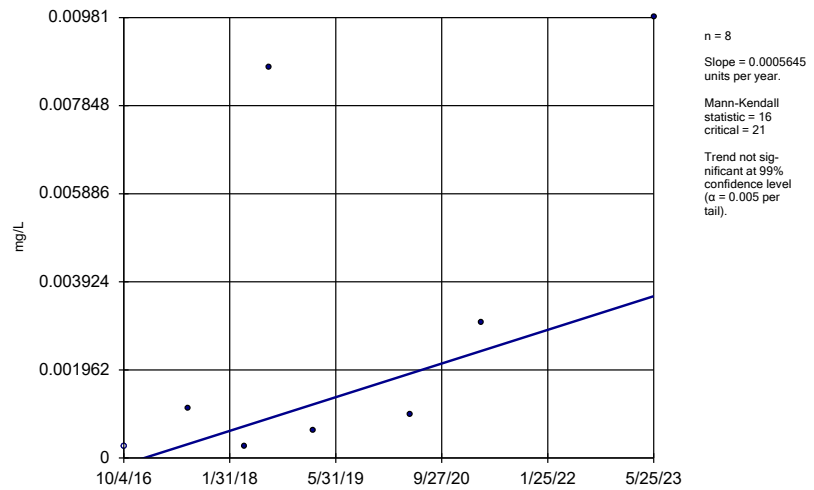
MW-5A



Constituent: Lead Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

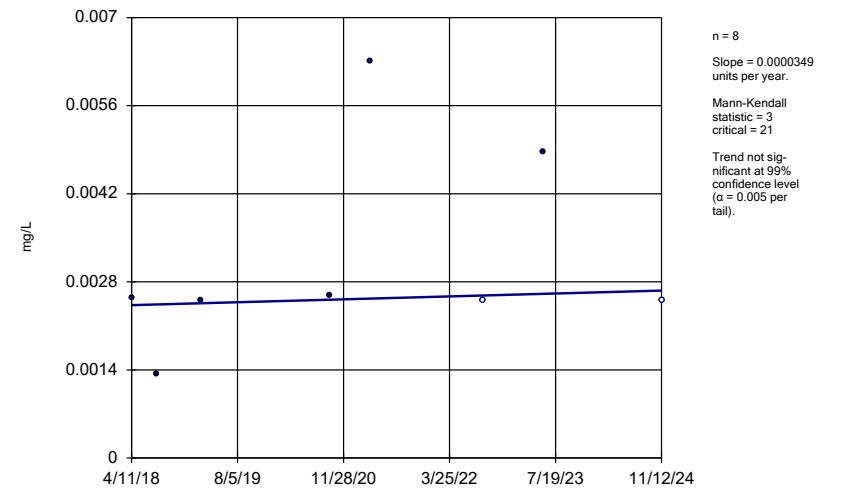
MW-12B



Constituent: Lead Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

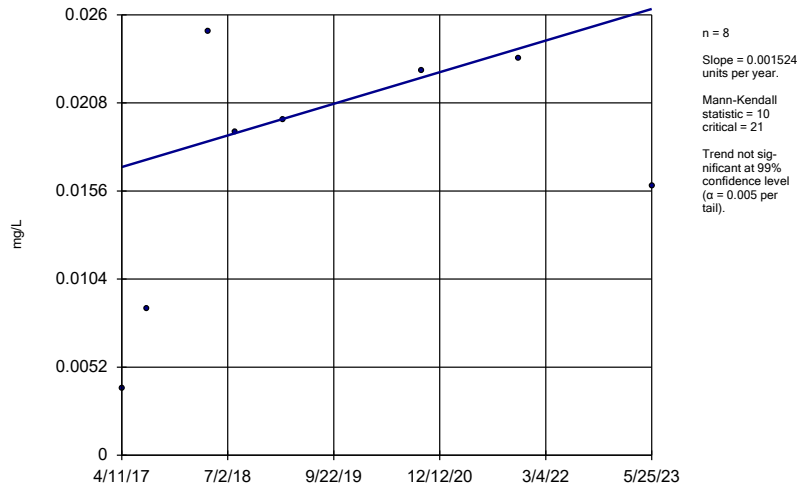
MW-4A



Constituent: Nickel Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

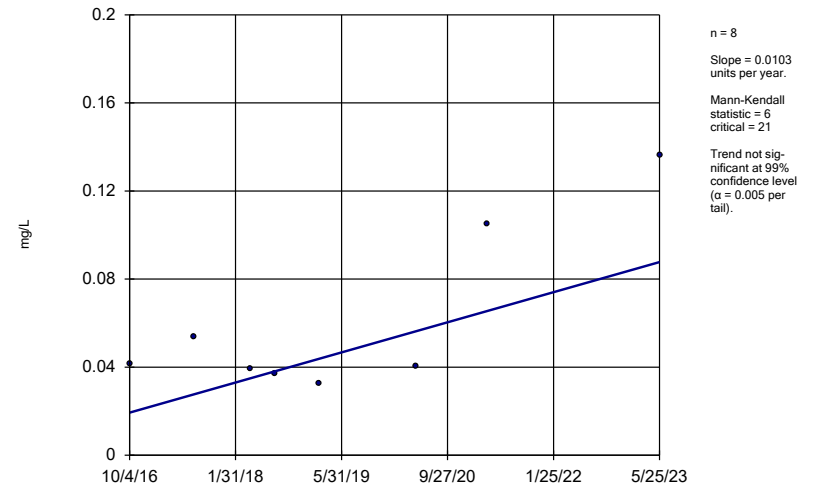
MW-5A



Constituent: Nickel Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

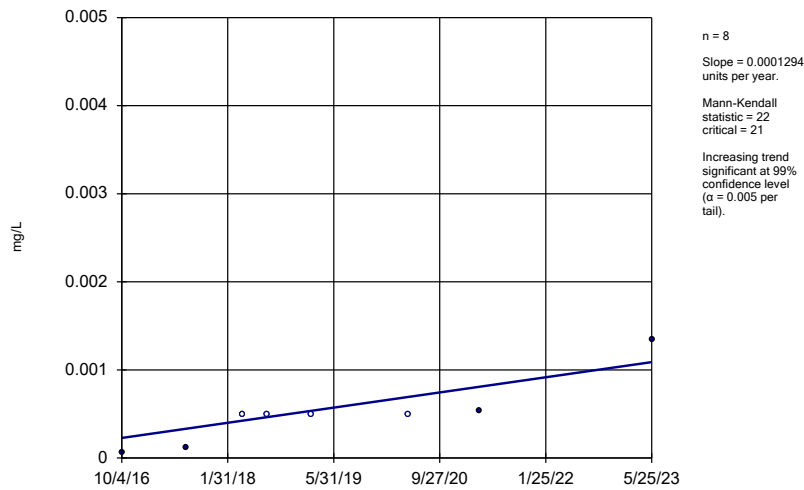
MW-12B



Constituent: Nickel Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

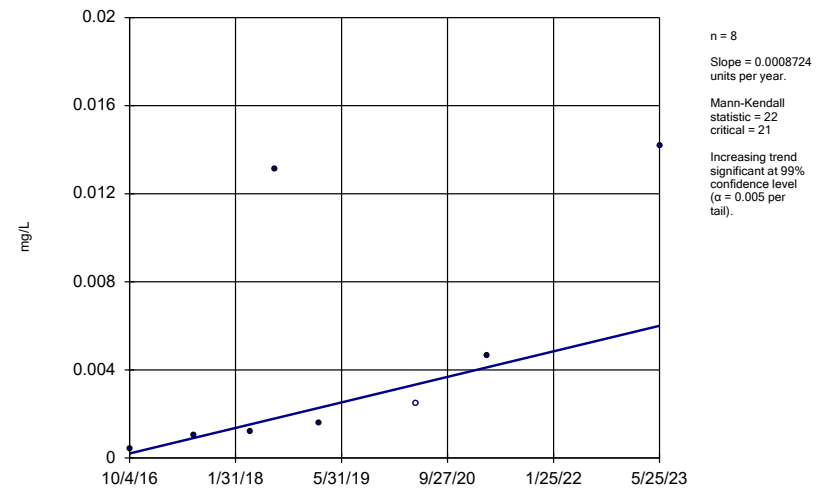
MW-12B



Constituent: Thallium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

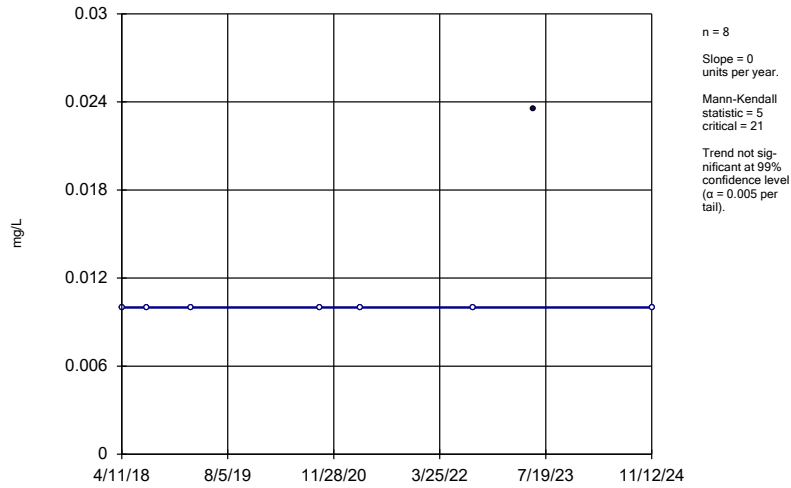
MW-12B



Constituent: Vanadium Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

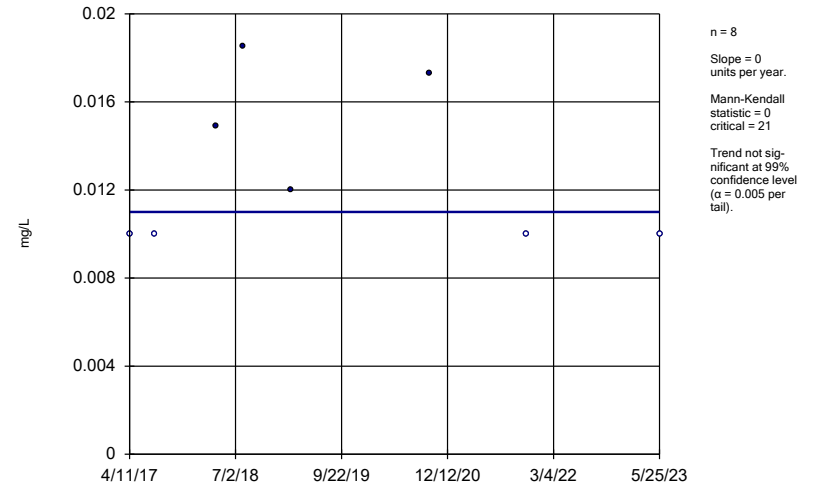
MW-4A



Constituent: Zinc Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

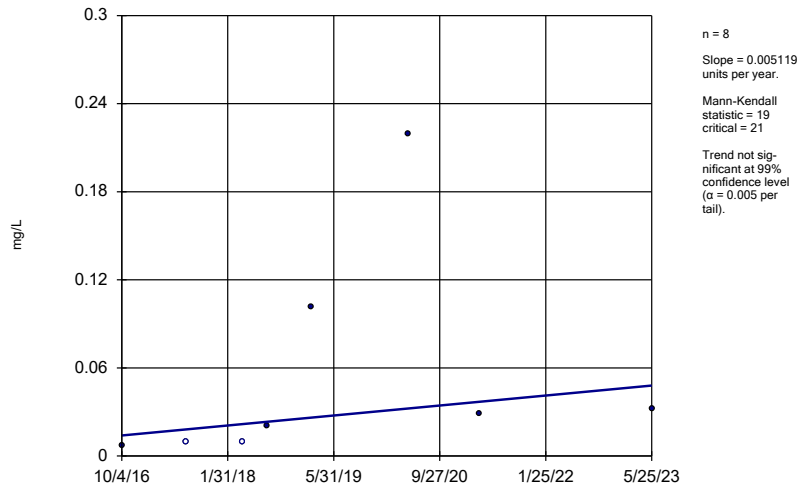
MW-5A




Constituent: Zinc Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Sen's Slope Estimator

MW-12B



Constituent: Zinc Analysis Run 2/21/2025 11:45 AM View: 2024AWQR-Mann_Kendall
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM



Attachment B.6
Confidence Interval Analysis

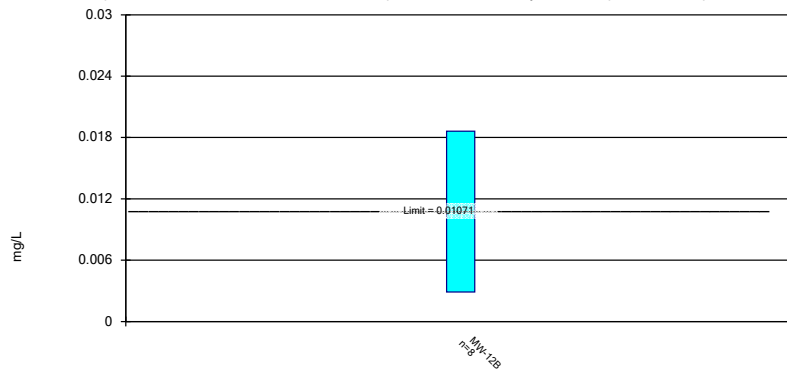
Confidence Interval

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM Printed 2/21/2025, 2:16 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	MW-12B	0.01862	0.002892	0.01071	No	8	0	No	0.01	Param.

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 2/21/2025 2:14 AM View: 2024AWQR-CI-MW12B-Cobalt
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

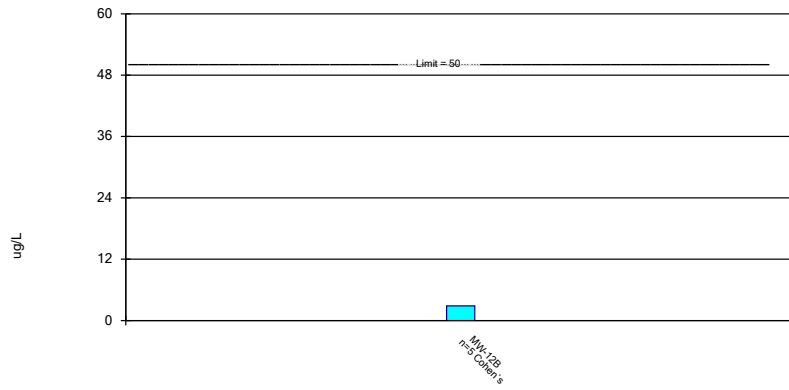
Confidence Interval

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM Printed 2/21/2025, 1:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
2,4,5-TP [Silvex] [2C] (ug/L)	MW-12B	2.881	0	50	No	5	40	No	0.01	Param.
Antimony (mg/L)	MW-5A	0.003408	0.001041	0.006	No	8	50	No	0.01	Param.
Antimony (mg/L)	MW-12B	0.001535	0.0001856	0.006	No	8	62.5	No	0.01	Param.
Arsenic (mg/L)	MW-4A	0.0127	0.00139	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MW-5A	0.004921	0.001114	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-12B	0.0095	0.00223	0.01	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-4A	0.6269	0.4104	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-5A	0.5023	0.4226	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-12B	0.5774	0.3495	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-12B	1.045	0.2253	5	No	8	12.5	No	0.01	Param.
Beryllium (mg/L)	MW-12B	0.00771	0.000413	0.004	No	8	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	MW-12B	0.002491	0	0.005	No	8	37.5	No	0.01	Param.
Carbon disulfide (ug/L)	MW-4A	9.465	0.253	700	No	8	50	No	0.004	NP (normality)
Carbon disulfide (ug/L)	MW-5A	14.1	0.153	700	No	8	25	No	0.004	NP (normality)
Chlorobenzene (ug/L)	MW-12B	1.611	0.1648	100	No	8	37.5	No	0.01	Param.
Chloromethane (ug/L)	MW-12B	8.77	1.5	3	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	MW-12B	0.0696	0.0025	0.1	No	8	62.5	No	0.004	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-12B	3.132	0.1552	70	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-4A	0.0009043	0.000101	0.0021	No	8	12.5	No	0.01	Param.
Copper (mg/L)	MW-5A	0.01236	0	1.3	No	8	37.5	No	0.01	Param.
Copper (mg/L)	MW-12B	0.928	0.0025	1.3	No	8	25	No	0.004	NP (normality)
Di-n-butyl phthalate (ug/L)	MW-4A	15.9	5	700	No	4	75	No	0.0625	NP (normality)
Lead (mg/L)	MW-4A	0.00157	0.00025	0.015	No	8	37.5	No	0.004	NP (normality)
Lead (mg/L)	MW-5A	0.001365	0.0002154	0.015	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-12B	0.00981	0.00025	0.015	No	8	12.5	No	0.004	NP (normality)
Nickel (mg/L)	MW-4A	0.006422	0.001836	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	MW-5A	0.02521	0.009411	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-12B	0.136	0.03245	0.1	No	8	0	No	0.004	NP (normality)
Zinc (mg/L)	MW-4A	0.0235	0.01	2	No	8	87.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-5A	0.0253	0.01442	2	No	8	50	No	0.01	Param.
Zinc (mg/L)	MW-12B	0.219	0.00669	2	No	8	25	No	0.004	NP (normality)

Parametric Confidence Interval

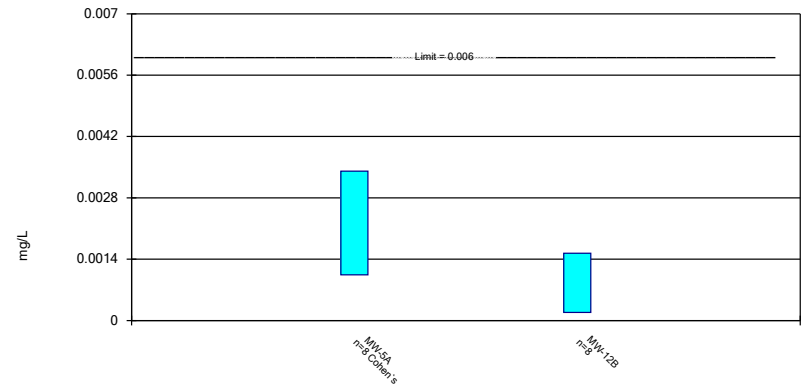
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Inter
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval

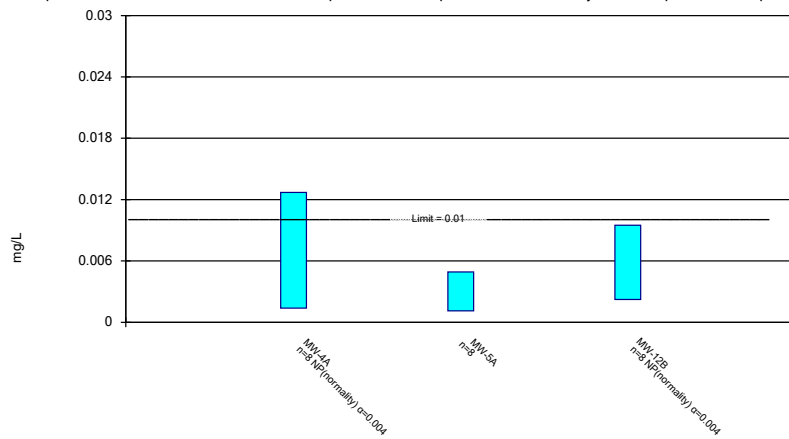
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Antimony Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

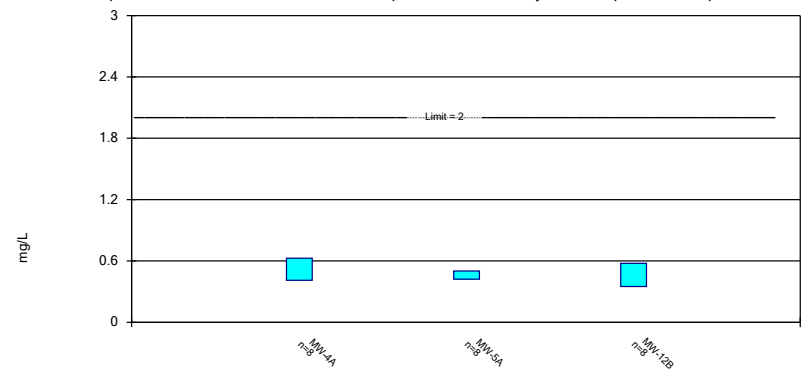
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval

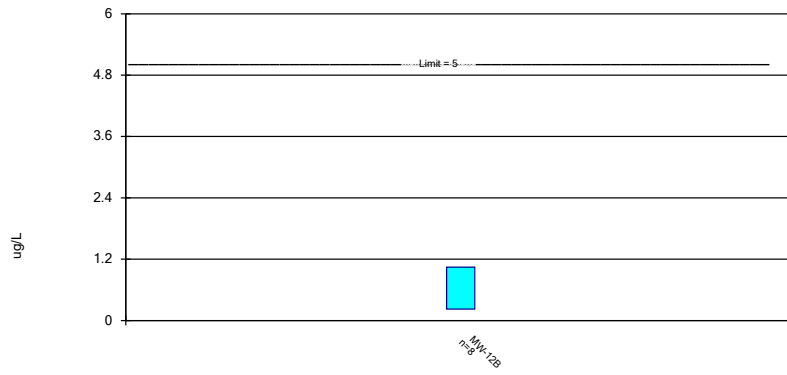
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval

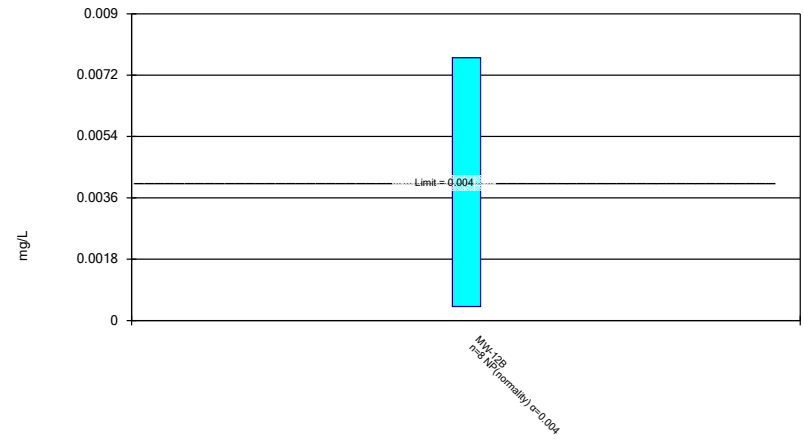
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Non-Parametric Confidence Interval

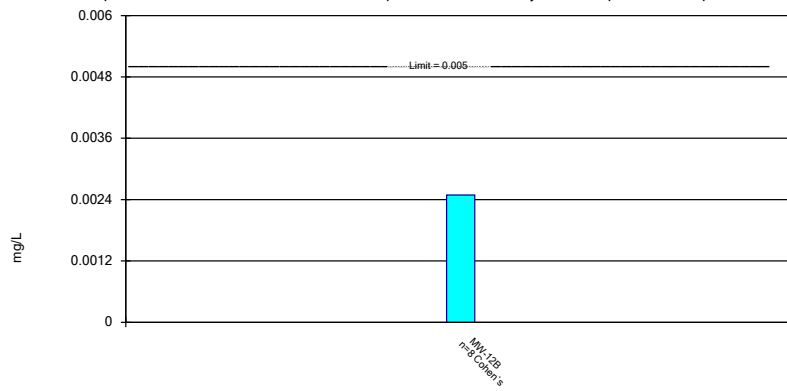
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval

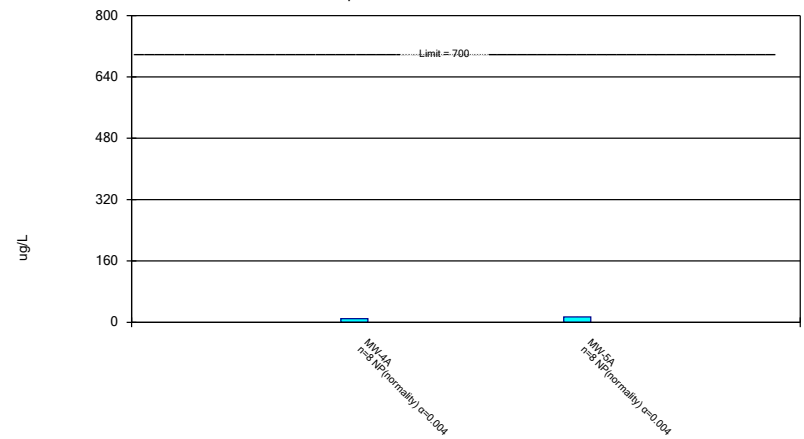
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Non-Parametric Confidence Interval

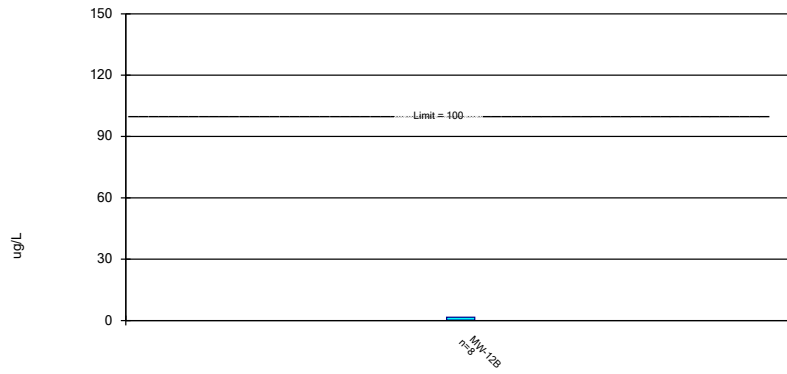
Compliance Limit is not exceeded.



Constituent: Carbon disulfide Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval

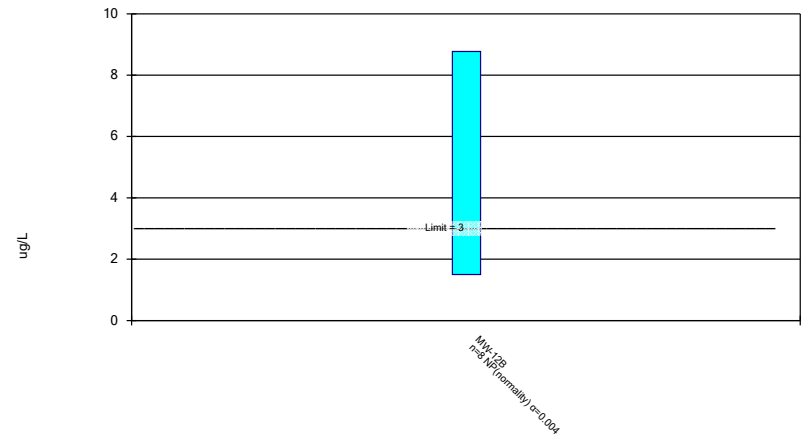
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chlorobenzene Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Non-Parametric Confidence Interval

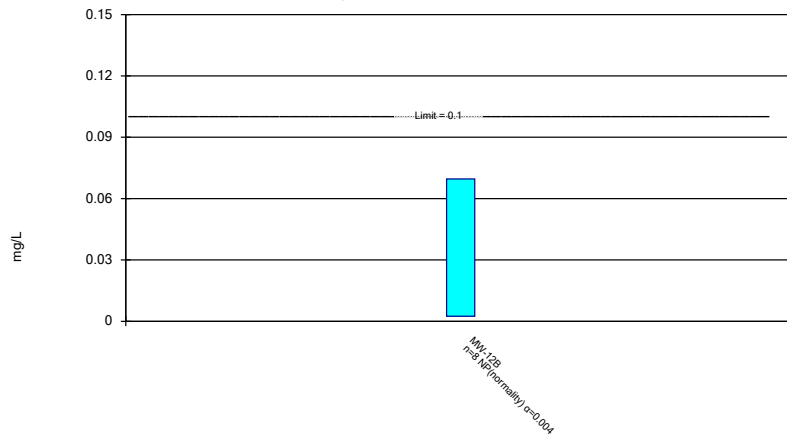
Compliance Limit is not exceeded.



Constituent: Chloromethane Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

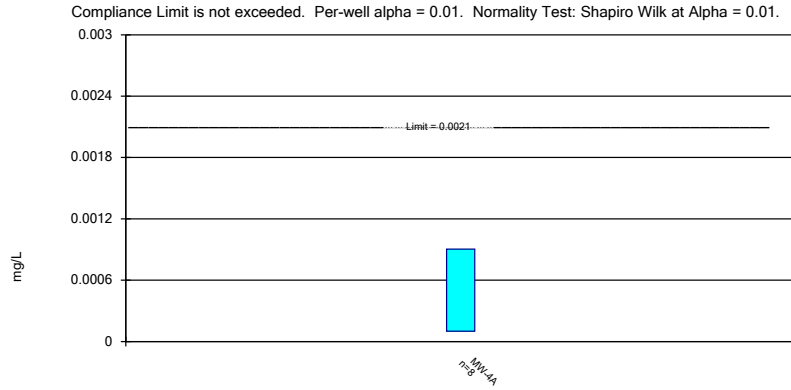
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



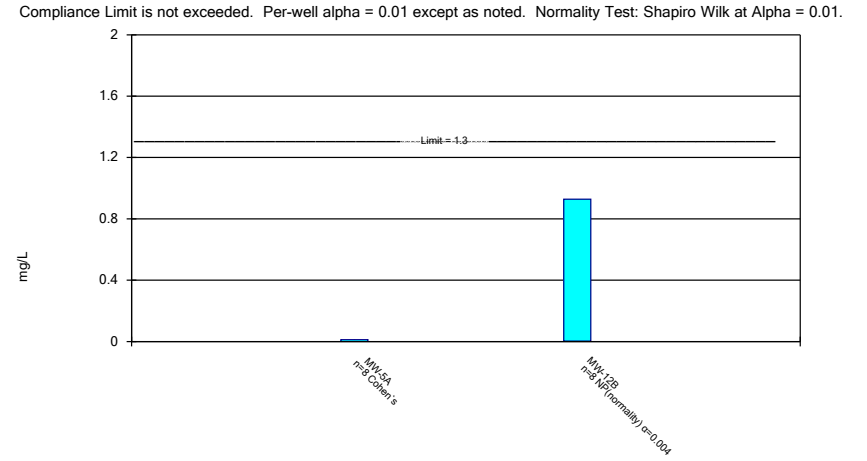
Constituent: cis-1,2-Dichloroethene Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Inte
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric Confidence Interval



Constituent: Cobalt Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval



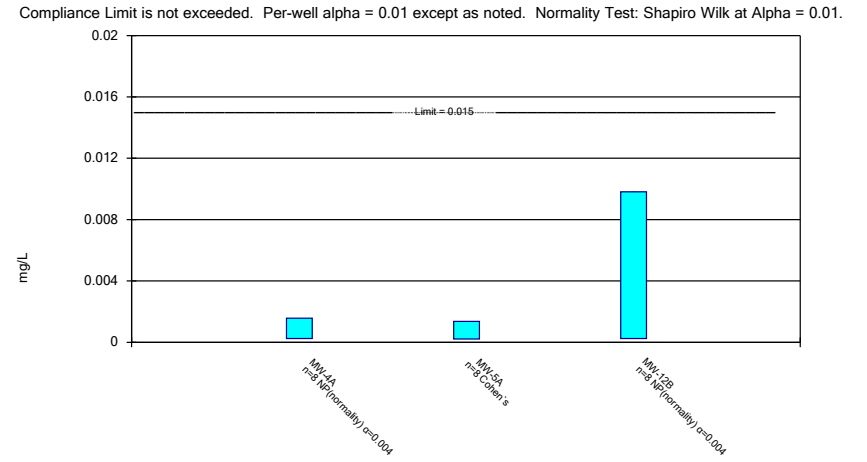
Constituent: Copper Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Non-Parametric Confidence Interval



Constituent: Di-n-butyl phthalate Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interv
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

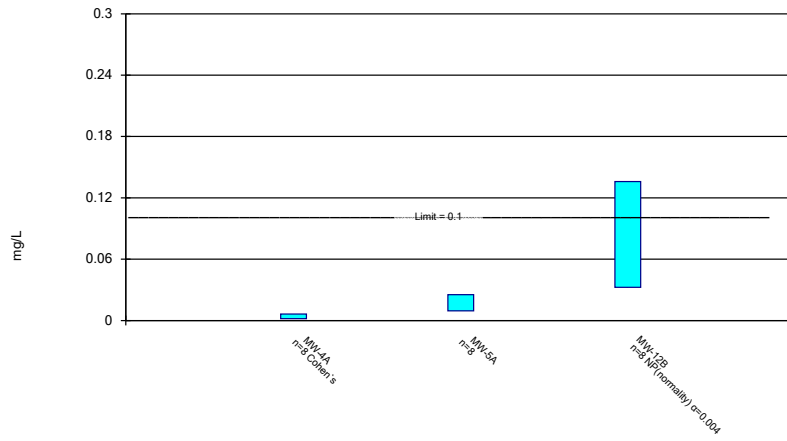
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Lead Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

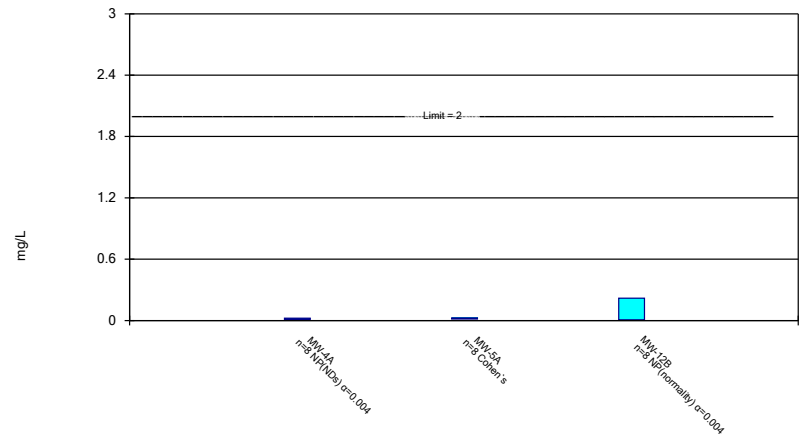
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Zinc Analysis Run 2/21/2025 11:59 AM View: 2024AWQR-Confidence_Interval
Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Attachment B.7

Theil-Sen

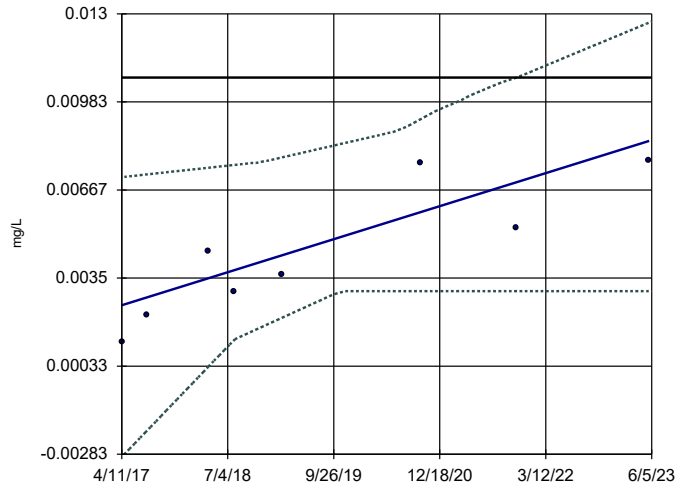
Theil Sen/Trend Test

Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM Printed 2/21/2025, 2:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	MW-5A	0.0009639	22	21	Yes	8	0	0.01	NP
Thallium (mg/L)	MW-12B	0.0001294	22	21	Yes	8	50	0.01	NP
Vanadium (mg/L)	MW-12B	0.0008724	22	21	Yes	8	12.5	0.01	NP

Sen's Slope and 99% Confidence Band

MW-5A



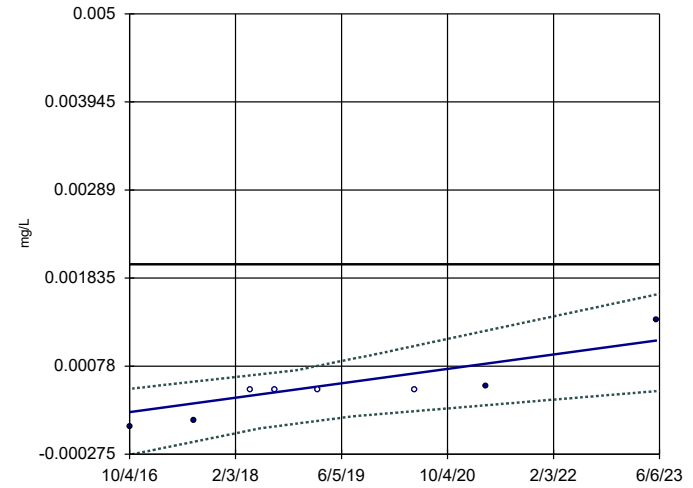
n = 8
 Slope = 0.0009639 units per year.
 Mann-Kendall statistic = 22
 critical = 21
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).
 Confidence band intersects SSGWPS mg/L (0.01071) on 11/23/21.

Constituent: Cobalt Analysis Run 2/21/2025 2:12 PM View: 2024AWQR-Thiel_Sen
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope and 99% Confidence Band

MW-12B



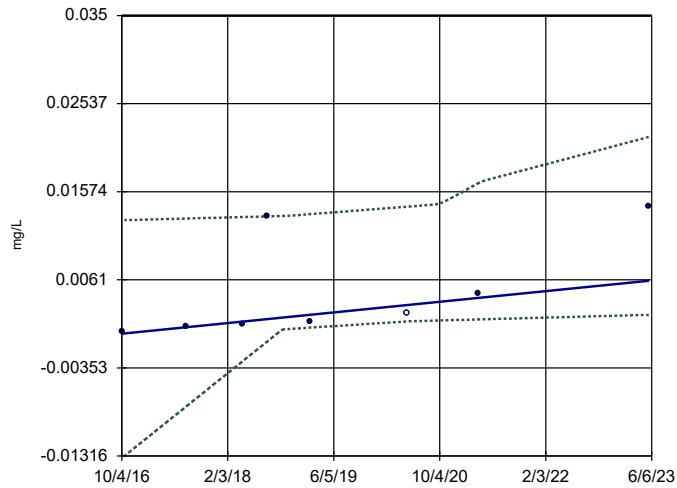
n = 8
 Slope = 0.0001294 units per year.
 Mann-Kendall statistic = 22
 critical = 21
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).
 Confidence band is below GWPS mg/L (0.002).

Constituent: Thallium Analysis Run 2/21/2025 2:12 PM View: 2024AWQR-Thiel_Sen
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

Hollow symbols indicate censored values.


Sen's Slope and 99% Confidence Band

MW-12B



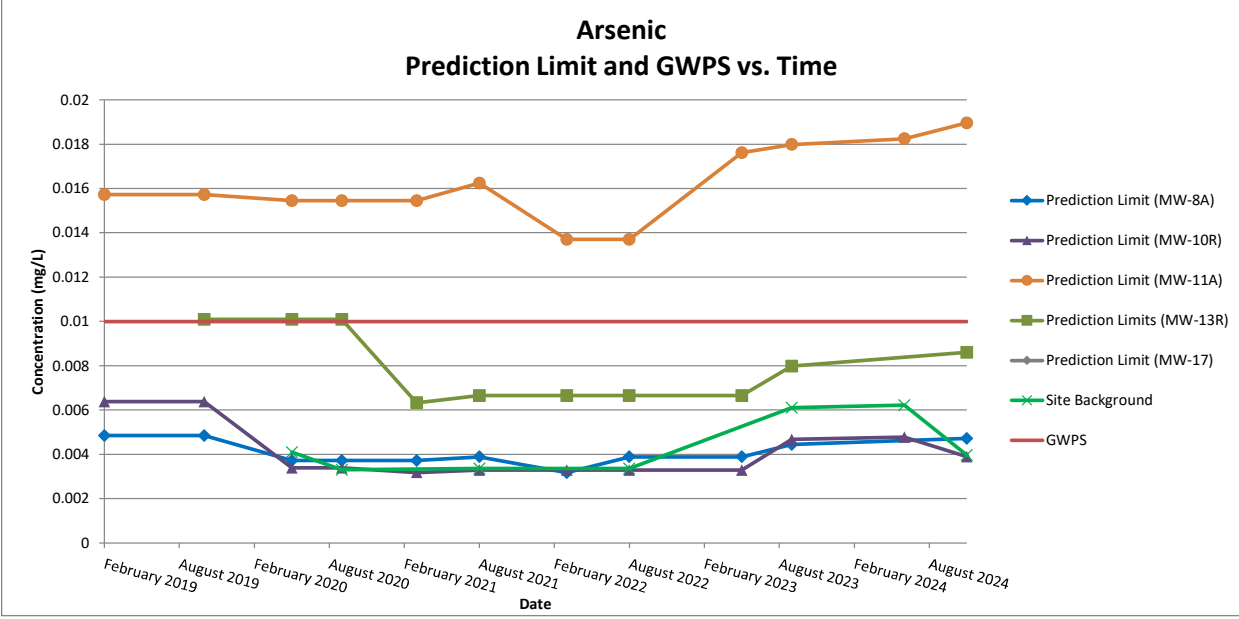
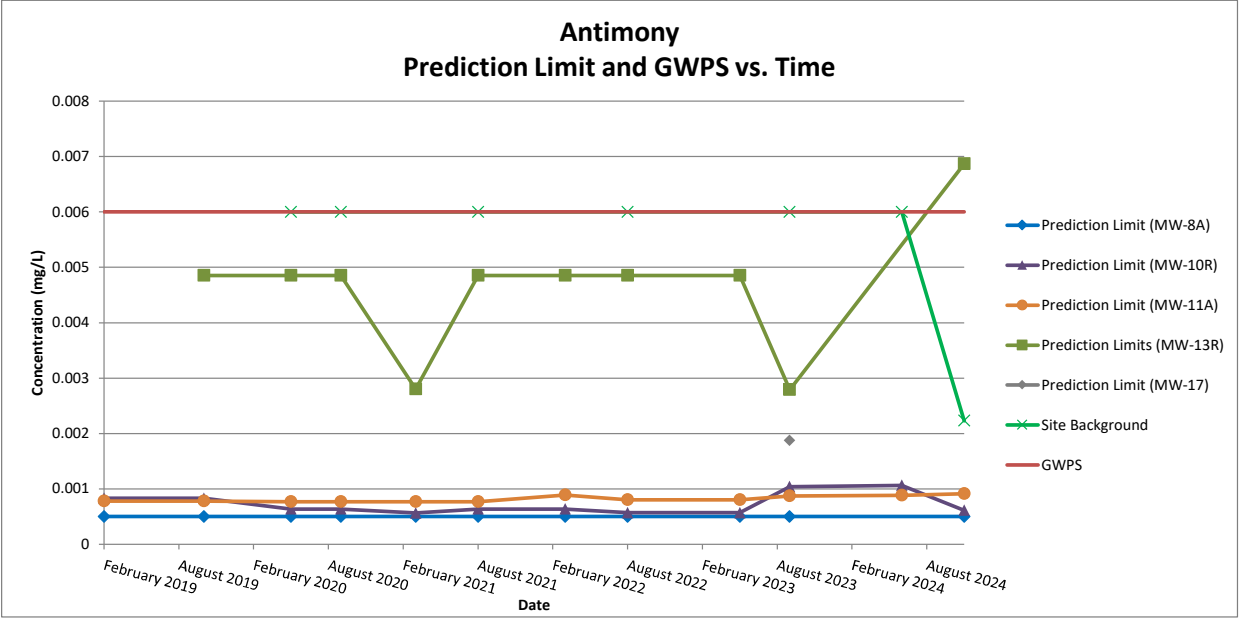
n = 8
 Slope = 0.0008724 units per year.
 Mann-Kendall statistic = 22
 critical = 21
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).
 Confidence band is below GWPS mg/L (0.035).

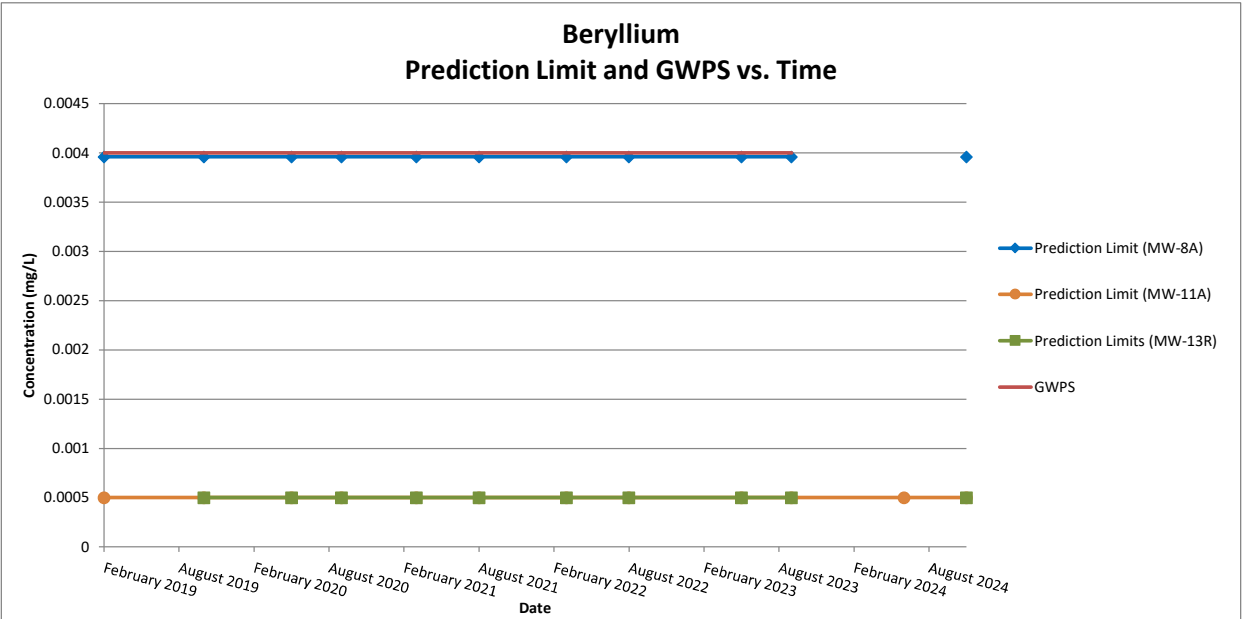
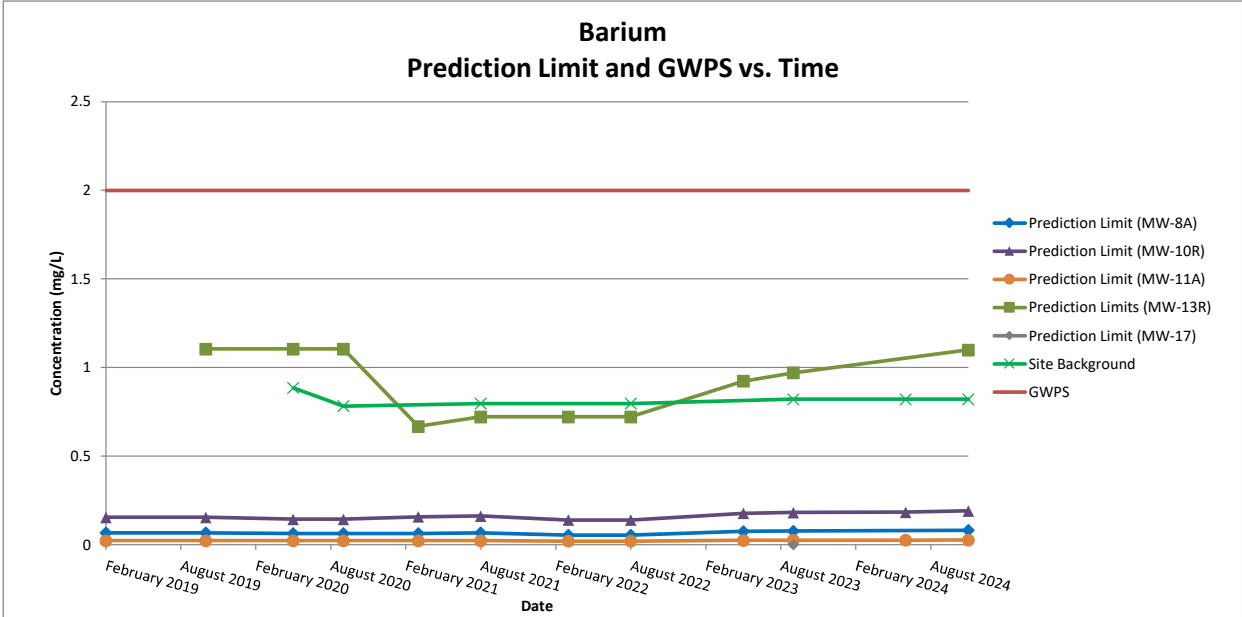
Constituent: Vanadium Analysis Run 2/21/2025 2:12 PM View: 2024AWQR-Thiel_Sen
 Harrison County Sanitary Landfill Client: SCS Engineers Data: HARSW-2024AWQR-AM

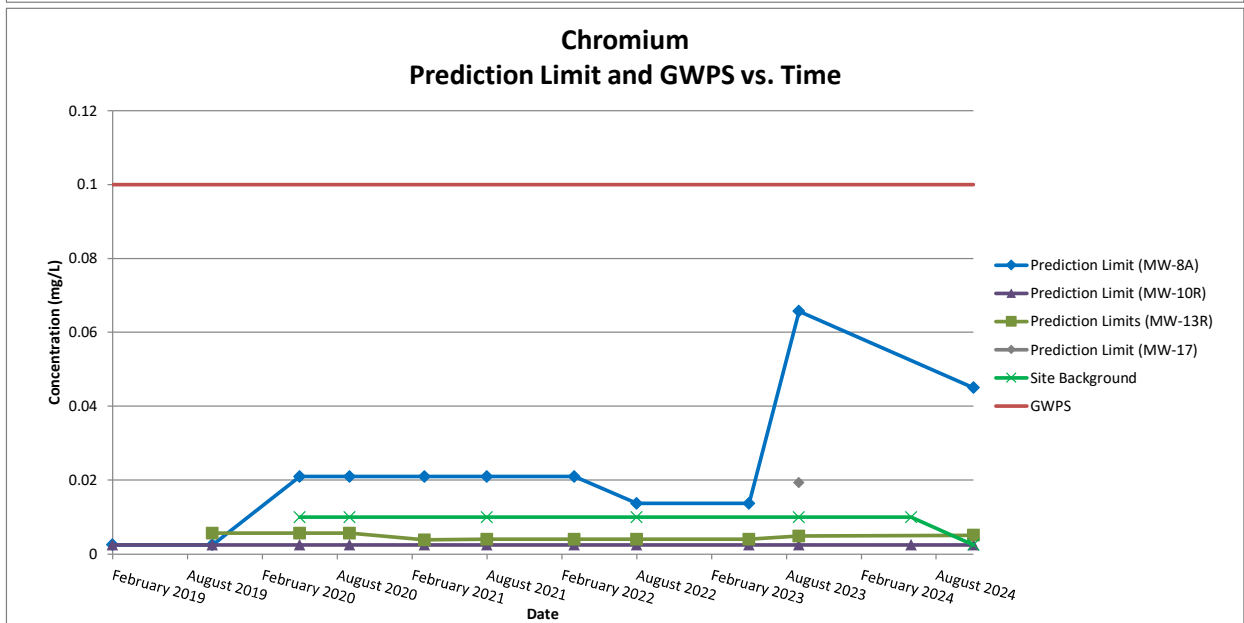
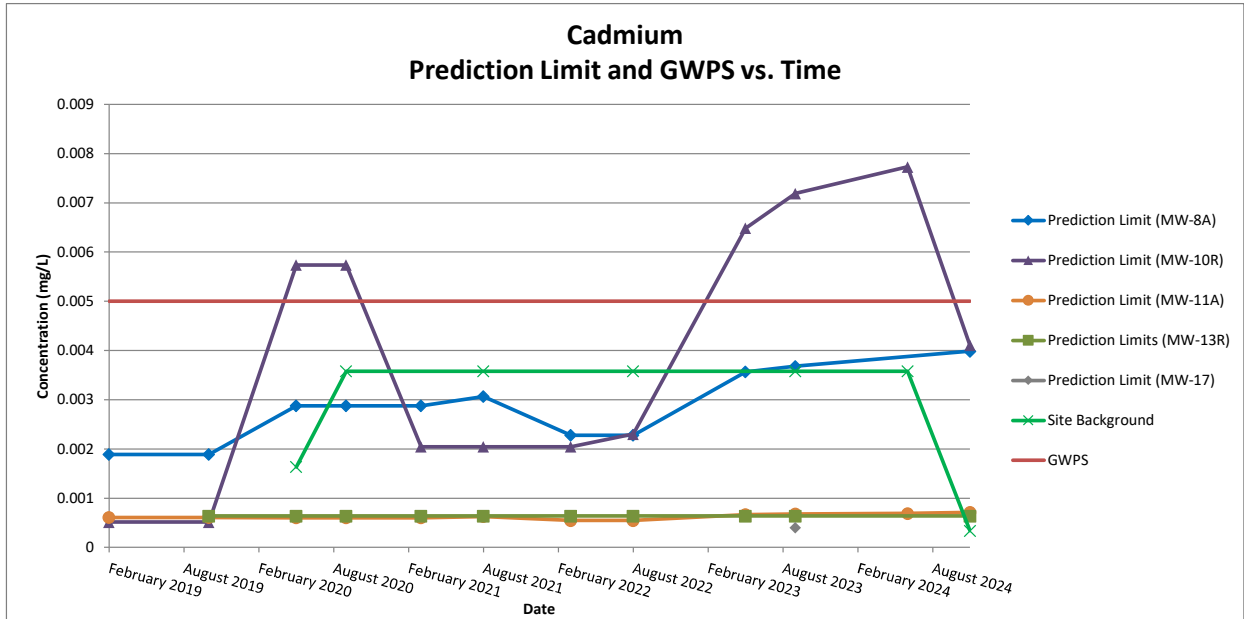


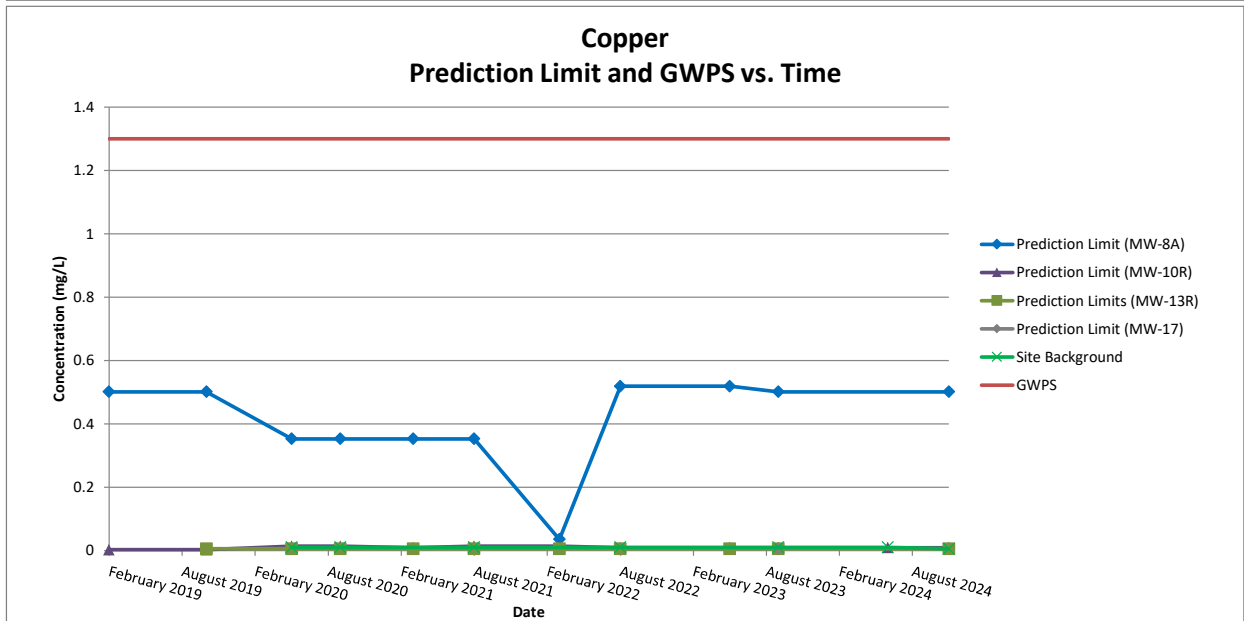
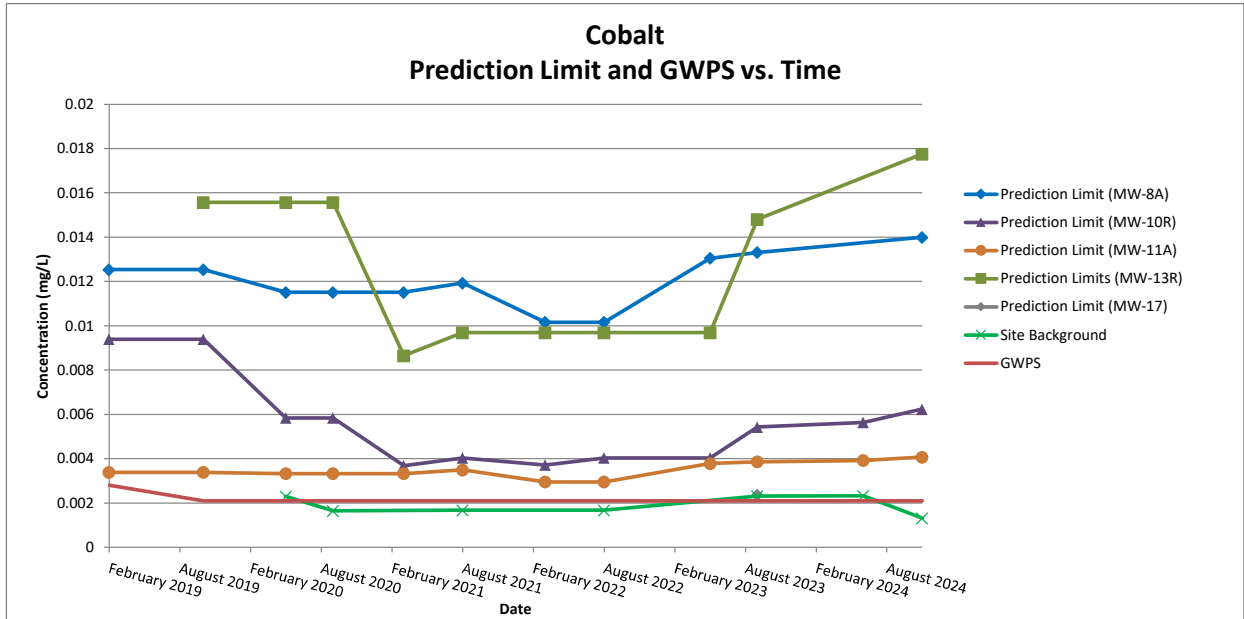
Appendix E

Standards History Graphs

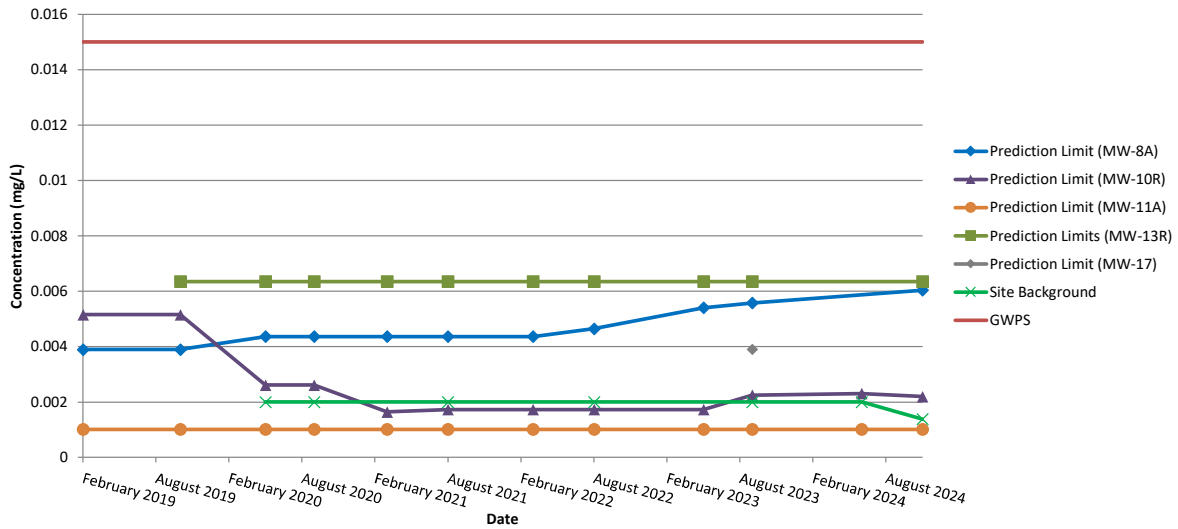




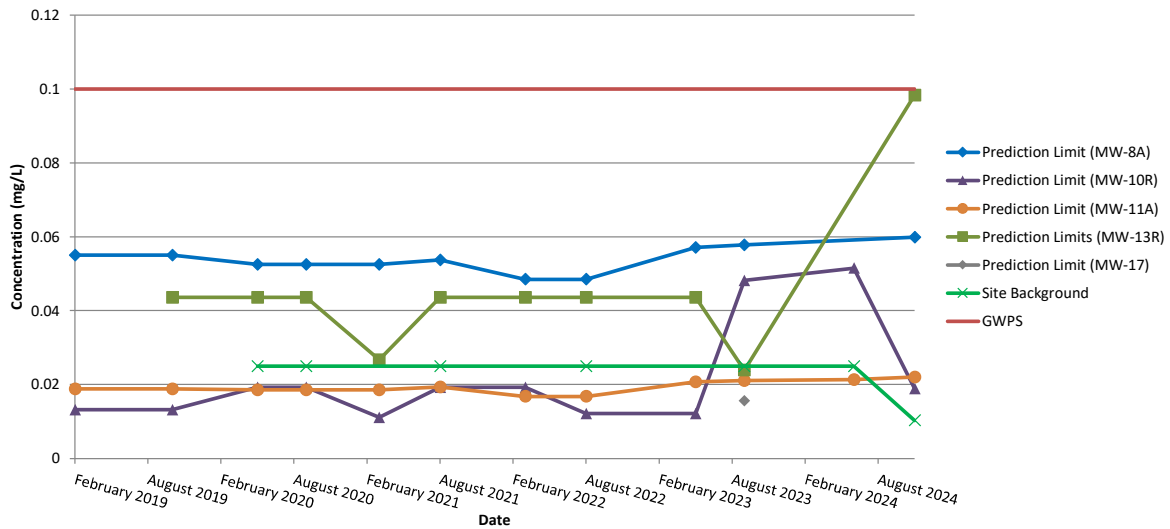


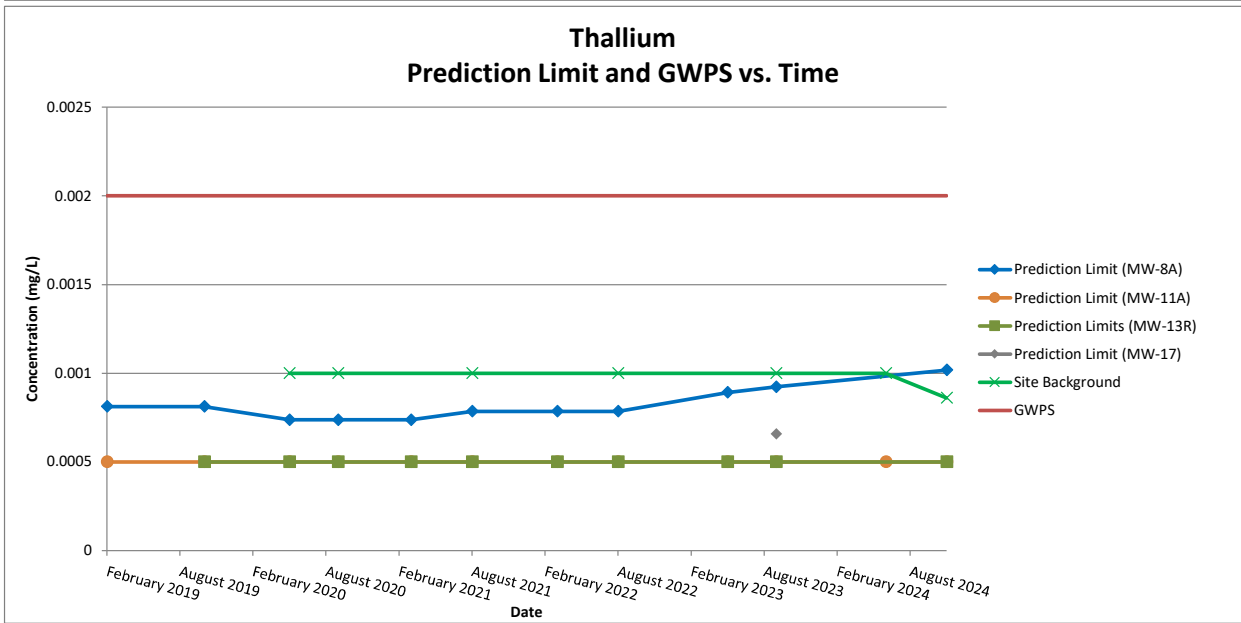
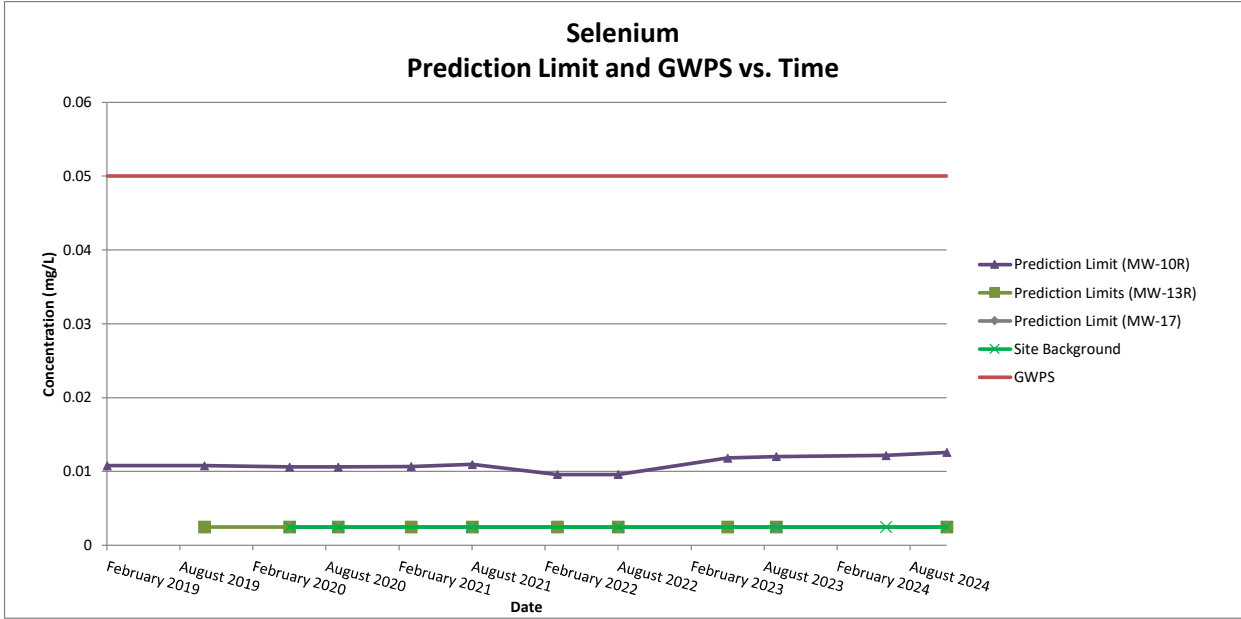


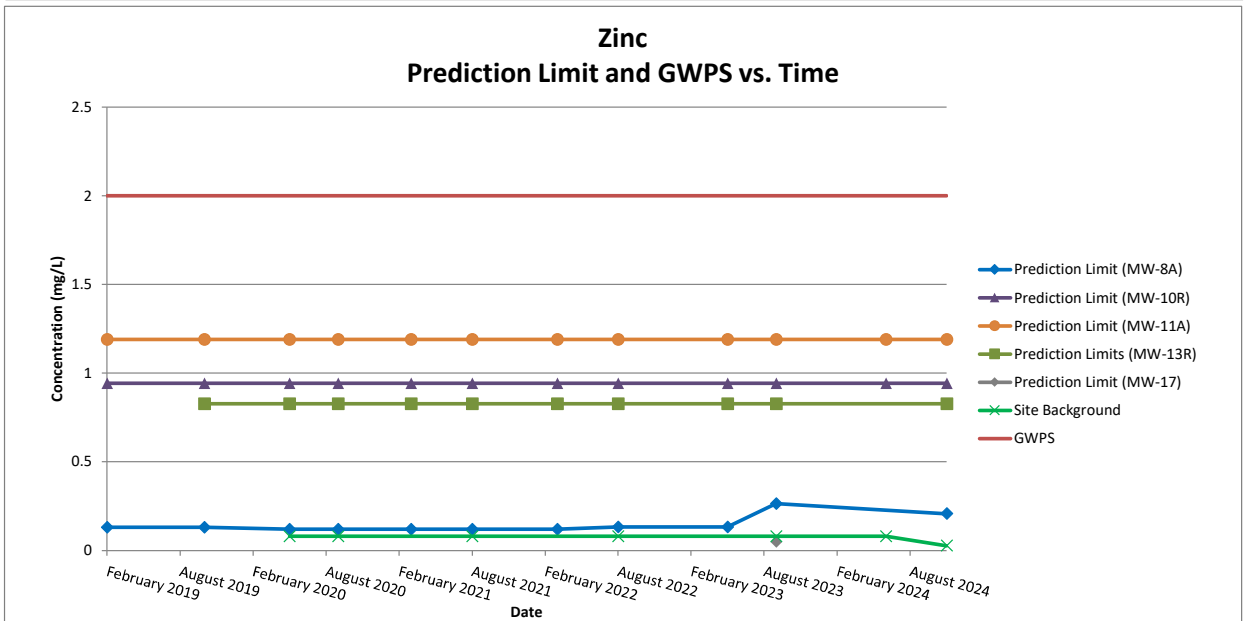
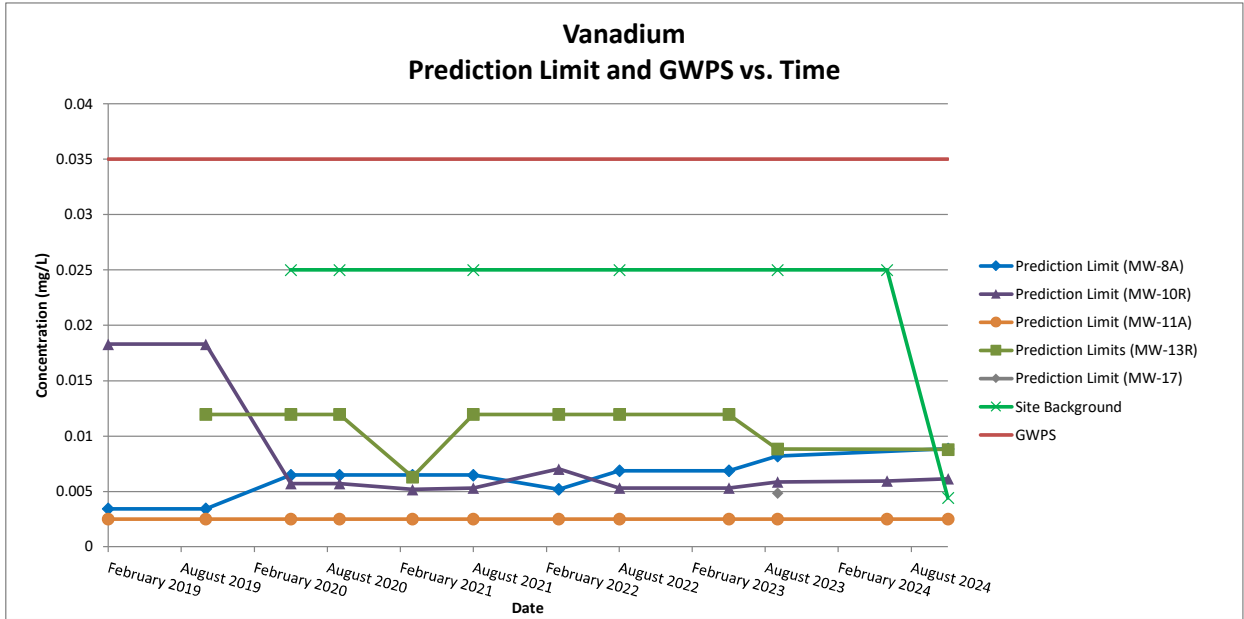
Lead Prediction Limit and GWPS vs. Time



Nickel Prediction Limit and GWPS vs. Time







Appendix F

2024 Leachate Control System Performance Evaluation Report

Table F1
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

Month	Lined Cell - Maximum Head on Liner (ft)		Volume Recirculated (gal)	Discharged to Logan POTW ⁽¹⁾ (gal)	Precipitation ⁽²⁾ (in)
	LPZ-1	LPZ-2			
January 2024	NM	0.3	0	20,035	0.01
February 2024	NM	1.3	0	43,422	0.03
March 2024	NM	0.8	0	43,368	1.49
April 2024	NM	0.6	0	59,536	1.96
May 2024	NM	0.8	0	154,740	6.28
June 2024	NM	1.3	0	55,104	3.26
July 2024	NM	0.6	0	25,294	5.36
August 2024	NM	0.5	0	25,294	4.47
September 2024	NM	0.5	0	25,005	0.43
October 2024	NM	0.4	0	21,021	1.02
November 2024	NM	0.2	0	37,982	3.27
December 2024	NM	0.1	0	23,971	0.69
January - December 2024 Total Gallons:				534,771	28.27

Notes:

⁽¹⁾ Gallons of leachate provided by Harrison County Landfill staff.

⁽²⁾ Precipitation data obtained from Iowa State Environmental Mesonet in Council Bluffs, IA.
(https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2024)

NM - Not Measured.

Comments:

Reporting Period: January - December 2024.

Recommended Changes to Leachate Collection System: SCS performed a joint measurement event during the 2024 reporting period with Landfill staff to ensure accurate measurement techniques are being performed. It was found that LPZ-1 was damaged and a leachate measurement cannot be obtained. The status of this piezometer will be further reviewed and addressed under separate cover.

Maintenance Performed on Leachate Collection System: None.

Last Date of Cleaning and Inspection: The leachate lines were flushed on October 14, 2024 by Landfill staff. Lines were reported to be in good condition.

Date for Next Cleaning and Inspection: Leachate line cleaning and inspection will be performed during the 2025 reporting period.

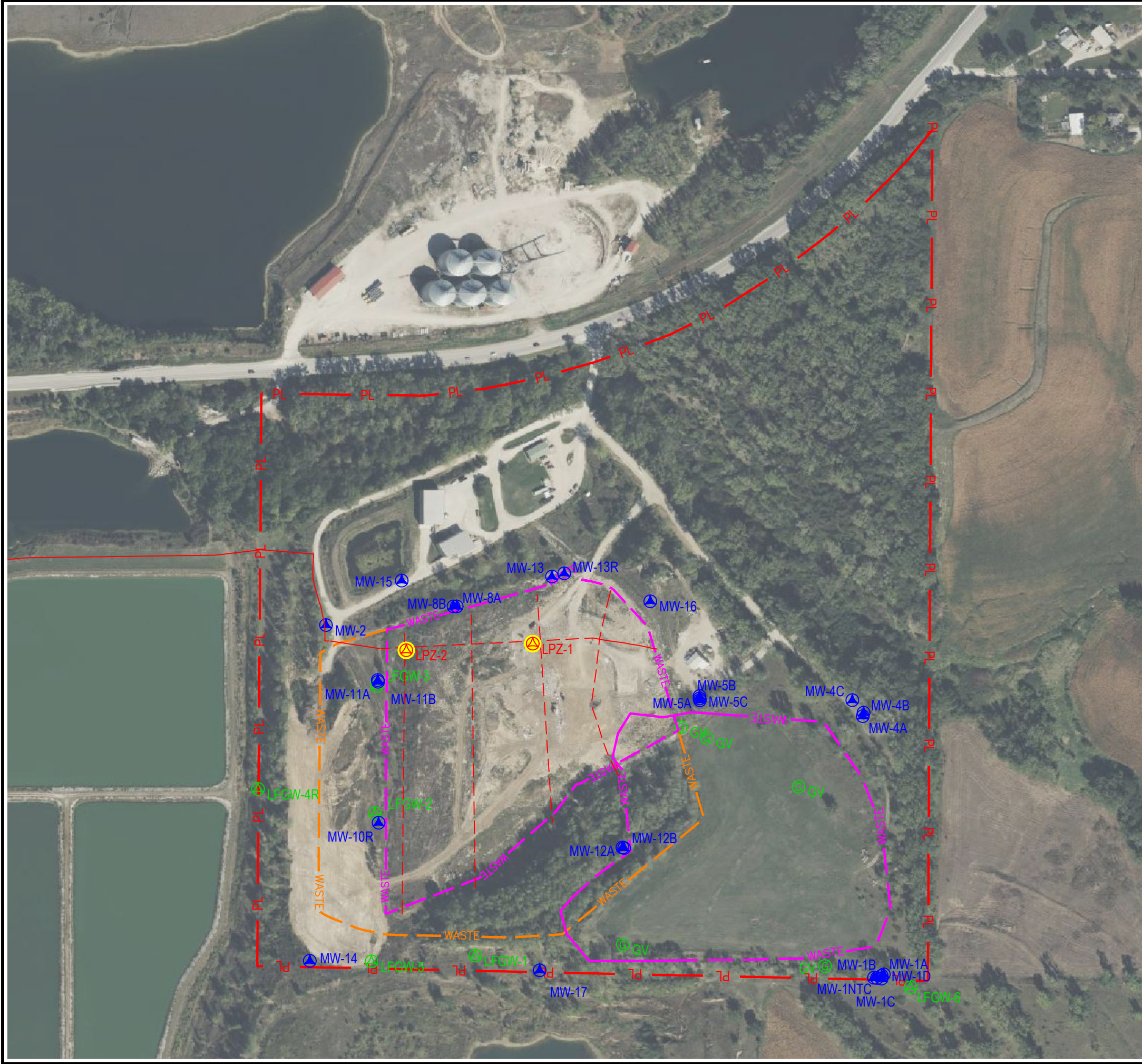
Volume of Leachate Recirculated: Leachate is not recirculated at this facility.

Volume of Leachate Treated On-Site: Leachate is not treated on-site at this facility.

Volume of Leachate Treated Off-Site: 534,771 gallons of leachate were discharged to the Logan POTW during this reporting period.

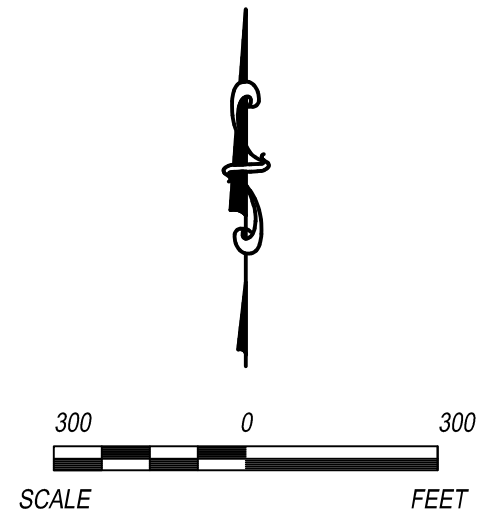
Leachate Quality Testing Results: The monthly leachate sample results obtained from the Landfill manager are included in Attachment A.

\\DES-F501\DES\MOINES\PROJECT\224470_25\AUTOCAD\2025_AWQR_MAP.DWG



LEGEND

- MW-4C MONITORING WELL
- LPZ-1 LEACHATE PIEZOMETER
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- LEACHATE PIPE - SOLID
- LEACHATE PIPE - PERFORATED



REV.	DATE	CHK BY
1		
2		
3		
4		
5		

SHEET TITLE
LEACHATE CONTROL SYSTEM

PROJECT TITLE
**HARRISON COUNTY SANITARY LANDFILL
2024 ANNUAL WATER QUALITY REPORT**

CLIENT
**HARRISON COUNTY LANDFILL
COMMISSION**
2812 E HIGHWAY 30
LOGAN, IOWA

SCS ENGINEERS
1680 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

PROJ. NO. 2224470.25	DWG. BY CJD	CHK. BY CJD	PRIN. MGR. ---
-------------------------	----------------	----------------	-------------------

CADD FILE:
2025_AWQR_MAP.DWG

DATE:
2/24/25

FIGURE NO.
1

Attachment A
Leachate Quality Testing Results



Keystone Laboratories - Newton
 CERTIFICATE OF ANALYSIS
 1HA0902

Harrison County Landfill

Tyler Hinkel
 2812 E Hwy 30, PO Box 121
 Logan, IA 51546

Project Name: Leachate Testing

Project / PO Number: / Harrison County Landfill
 Received: 01/17/2024
 Reported: 01/31/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Water	Collection Date:	01/16/2024 13:30
Lab Sample ID:	1HA0902-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1	PH-3	01/23/24 1352	01/24/24 1200	CCB
EPA 351.2								
Nitrogen, Kjeldahl, total	53.6	0.50	mg/L	1			01/24/24 0856	AKK
SM 4500 H+ B								
pH	7.2	0.5	pH	1	I-03	01/17/24 1349	01/17/24 1700	AKK
SM 5210 B								
BOD (5 day)	25	5	mg/L	3		01/17/24 1246	01/17/24 1336	BDF
TIMBERLINE								
Nitrogen, Ammonia	96.4	10.0	mg/L	100		01/29/24 0820	01/29/24 1126	LJS
USGS I-3765-85								
Total Suspended Solids (TSS)	26	1	mg/L	1		01/17/24 0834	01/18/24 0834	MEAH

Definitions

- I-03:** Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- PH-3:** Insufficient preservative to adjust the sample pH to less than 2, value measured at 7 pH units.
- RL:** Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Tiffannie Clymer
 Customer Relationship Specialist
 tiffannie.clymer@microbac.com
 01/31/24 16:26



LABORATORIES
A Microbac Company

600 East 17th Street S.
Newton, IA 50208
641-792-8481

Harrison County Landfill
P.M.: Tiffanie Cvrner

1 H A 0 9 0 2

Page 1 of
Printed: 12/15/2023 8:41:20A
www.keystonelabs

Page 2 of 2

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly

Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order

Temperature 0.8

Turn-Cooler: NO

1HA0902

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number Sample Identification / Client ID

Matrix

Sample Type

Date

Time

Number of Containers

Analyses

Lab Sample Number

-001	Leachate Sample	Water	GRAB	<u>11/16/24</u>	<u>1330</u>	<u>3</u>	bod-5210 og-t-1.664 km-3.51.2	nh3-dimhetime ph-4.500 fss-1-3.765-85	<u>01</u>
------	-----------------	-------	------	-----------------	-------------	----------	-------------------------------------	---	-----------

Relinquished By [Signature] Date/Time 11/16/24

Relinquished By [Signature] Date/Time 11/17/24

Received By _____ Date/Time _____

Received for Lab By [Signature] Date/Time 11/17/24

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Keystone Laboratories - Newton
 CERTIFICATE OF ANALYSIS
 1HB0932

Harrison County Landfill

Tyler Hinkel
 2812 E Hwy 30, PO Box 121
 Logan, IA 51546

Project Name: Leachate Testing

Project / PO Number: / Harrison County Landfill
 Received: 02/14/2024
 Reported: 02/26/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Water	Collection Date:	02/13/2024 14:00
Lab Sample ID:	1HB0932-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1	PH-3	02/16/24 0833	02/19/24 1500	CCB
EPA 351.2								
Nitrogen, Kjeldahl, total	132	2.50	mg/L	1			02/23/24 0835	AKK
SM 4500 H+ B								
pH	7.5	0.5	pH	1	I-03		02/14/24 1534	BSS
SM 5210 B								
BOD (5 day)	14	6	mg/L	3		02/14/24 1514	02/14/24 1611	BDF
TIMBERLINE								
Nitrogen, Ammonia	64.4	1.00	mg/L	10		02/20/24 1013	02/20/24 1451	LJS
USGS I-3765-85								
Total Suspended Solids (TSS)	21	1	mg/L	1		02/15/24 1337	02/19/24 1003	RDH

Definitions

- I-03:** Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- PH-3:** Insufficient preservative to adjust the sample pH to less than 2, value measured at 6 pH units.
- RL:** Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Tiffannie Clymer
 Customer Relationship Specialist
 tiffannie.clymer@microbac.com
 02/26/24 14:33

Keystone

LABORATORIES
A Microbac Company

500 East 17th Street South
Newton, IA 50208
641-792-8451

CHAIN OF CUSTODY RECORD



Harrison County Landfill
P.M.: Tiffanie Clymer

SITE INFORMATION

Sampler: [Signature]
Project: Leachate Testing
Harrison County Landfill

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly
Turn Around Time: Standard RUSH, need by ___/___/___

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

LAB USE ONLY

Work Order: 1HB0932
Temperature: 1.6
Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Water	GRAB	2/13/24	1400	3	bod-5210 og-1-1664 fm-351.2 nh3-dimbarfme ph-4500 tss-1-3765-85	DL

Relinquished By: [Signature] Date/Time: 2-13-24 1400

Received By: _____ Date/Time: _____

Relinquished By: [Signature] Date/Time: 2-14-24 10:10

Received for Lab By: _____ Date/Time: _____

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HC1393

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 03/21/2024
Reported: 04/08/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Water	Collection Date:	03/20/2024 14:00
Lab Sample ID:	1HC1393-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1	PH-3a	03/26/24 0941	03/27/24 1600	CCB
EPA 351.2								
Nitrogen, Kjeldahl, total	69.4	2.50	mg/L	5			03/25/24 1158	AKK
SM 4500 H+ B								
pH	7.0	0.5	pH	1	I-03	03/26/24 1608	03/26/24 1610	BSS
SM 5210 B								
BOD (5 day)	23	6	mg/L	3			03/21/24 1533	MND
TIMBERLINE								
Nitrogen, Ammonia	68.4	1.00	mg/L	10		04/01/24 1336	04/01/24 1651	LJS
USGS I-3765-85								
Total Suspended Solids (TSS)	26	1	mg/L	1		03/27/24 0810	03/27/24 1503	MEAH

Definitions

- I-03:** Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- PH-3a:** Insufficient preservative to adjust the sample pH to less than 2, value measured at 6 pH units.
- RL:** Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Tiffannie Clymer
Customer Relationship Specialist
tiffannie.clymer@microbac.com
04/08/24 17:18

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly
Turn Around Time Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order HCB93
Temperature 0.1
Turn-Cooler: No

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
--------	-----------------------------------	--------	-------------	------	------	----------------------	----------	-------------------

-001	Leachate Sample	Water	GRAB	<u>8/20/24</u>	<u>1400</u>	<u>3</u>	bod-5210 o9-4-1664 dm-351.2 nh3-turbidity ph-4500 tss-1-3765-85	<u>a</u>
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Relinquished By [Signature] Date/Time 3-20-24 1400

Relinquished By [Signature] Date/Time 3/21/24 10:30am

Remarks:

Received By _____ Date/Time _____

Received for Lab By [Signature] Date/Time _____

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD1282

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 04/17/2024
Reported: 05/10/2024

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Leachate Sample, Aqueous, 1HD1282-01, Hinkel, Tyler, 04/16/2024 14:00.

Main data table with columns: Determination of Conventional Chemistry Parameters, Result, RL, Units, DF, Note, Prepared, Analyzed, Analyst. Rows include EPA 1664A, EPA 351.2, SM 4500 H+ B, SM 5210 B, TIMBERLINE, USGS I-3765-85.

Definitions

- I-03: Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
PH-3: Insufficient preservative to adjust the sample pH to less than 2, value measured at 3 pH units.
RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Tiffannie Clymer (handwritten signature)

Tiffannie Clymer
Customer Relationship Specialist
tiffannie.clymer@microbac.com
05/10/24 16:57

Keystone

LABORATORIES
A Microbac Company

500 East 17th Street Soi
Newton, IA 50208
641-792-8451

Harrison County Landfill
PM: Tiffanie Clymer

CHAIN OF CU



Page 1 of 2
Printed: 3/25/2024 7:55:59/

www.keystonelabs.com

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30 PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30 PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

CO & NH3 is Quarterly

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order IHB1282

Temperature D.4

Turn-Cooler: no

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number Sample Identification / Client ID

Matrix

Sample Type

Date

Time

Number of Containers

Analyses

Lab Sample Number

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Water	GRAB	4/16/24	1400	3	bod-5210 og-t-1664 fcn-351.2 nh3-amherstme ph-4500 fcn-1-3765-85	01

Relinquished By Tyler Hinkel Date/Time 4-16-1400

Relinquished By _____ Date/Time 15

Received By _____ Date/Time _____

Received for Lab By Alexandra Murphy Date/Time 4/17/24 10:55AM
EE-60F

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HG0932

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 07/12/2024
Reported: 07/30/2024

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Leachate Sample, Aqueous, 1HG0932-01, Hinkel, Tyler, 07/11/2024 14:30.

Main data table with columns: Determination of Conventional Chemistry Parameters, Result, RL, Units, DF, Note, Prepared, Analyzed, Analyst. Rows include EPA 1664A, EPA 351.2, SM 4500 H+ B, SM 5210 B, TIMBERLINE, USGS I-3765-85.

Definitions

- A14: Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Tiffannie Clymer (signature)

Tiffannie Clymer
Customer Relationship Specialist
tiffannie.clymer@microbac.com
07/30/24 12:46



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HH1045

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 08/14/2024
Reported: 08/27/2024

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Leachate Sample, Aqueous, 1HH1045-01, Hinkel, Tyler, 08/13/2024 14:50.

Main data table with columns: Determination of Conventional Chemistry Parameters, Result, RL, Units, DF, Note, Prepared, Analyzed, Analyst. Rows include EPA 1664A, EPA 351.2, SM 4500 H+ B, SM 5210 B, TIMBERLINE, USGS I-3765-85.

Definitions

- A14: Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Tiffany Clymer (handwritten signature)

Tiffany Clymer
Customer Relationship Specialist
tiffany.clymer@microbac.com
08/27/24 16:49



600 East 17th Street South
Newton, IA 50208
641-792-8451

1 H H 1 0 4 5
Harrison County Landfill
P.M. Tiffanie Clymer

Page 1 of
7/6/2024 10:22:18A
www.keystonelabs.com

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly
Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order: 1HH1045
Temperature: 0.6
Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number Sample Identification / Client ID

Matrix

Sample Type

Date

Time

Number of Containers

Analyses

Lab Sample Number

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Aqueous	GRAB	8/13/24	1450	3	hrd-5210 org-t-1664 hcr-351.2 nh3-finder-time ph-4500 tss-i-3765-85	01

Relinquished By [Signature] Date/Time 8/13 1450

Received By _____ Date/Time _____

Relinquished By [Signature] Date/Time 8/14/24 10:30

Received for Lab By [Signature] Date/Time _____

Remarks:

WE NEED OUR ANNUAL SAMPLE KIT IN SEPT.

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HI0387

Harrison County Landfill

Project Name: Annual Leachate Testing

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 09/06/2024
Reported: 09/27/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Aqueous	Collection Date:	09/05/2024 14:15
Lab Sample ID:	1HI0387-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624								
Chloromethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Bromomethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Chloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Chloroform	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Benzene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Dibromomethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
2-Chloroethylvinyl ether	<10.0	10.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Toluene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Xylenes, total	<2.0	2.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Bromoform	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,4-Dichlorobenzene	1.8	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		09/12/24 0000	09/12/24 1924	CSM
Surrogate: Dibromofluoromethane	89.6	Limit: 59-123	% Rec	1		09/12/24 0000	09/12/24 1924	CSM
Surrogate: 1,2-Dichloroethane-d4	91.9	Limit: 56-130	% Rec	1		09/12/24 0000	09/12/24 1924	CSM
Surrogate: Toluene-d8	103	Limit: 85-113	% Rec	1		09/12/24 0000	09/12/24 1924	CSM

Microbac Laboratories, Inc., Newton

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HI0387

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Aqueous	Collection Date:	09/05/2024 14:15
Lab Sample ID:	1HI0387-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
---	--------	----	-------	----	------	----------	----------	---------

Surrogate: 4-Bromofluorobenzene	81.9	Limit: 82-112	% Rec	1	S2	09/12/24 0000	09/12/24 1924	CSM
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Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
--	--------	----	-------	----	------	----------	----------	---------

2510B

Conductivity	2510	2.0	uS/cm	1		09/09/24 1349	09/10/24 1556	BSS
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EPA 1664A

Oil and Grease	<4	4	mg/L	1		09/17/24 1026	09/18/24 0845	AAK
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EPA 351.2

Nitrogen, Kjeldahl, total	38.0	1.00	mg/L	1			09/17/24 0921	AKK
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EPA 410.4

COD, total	170	54	mg/L	1		09/16/24 0814	09/16/24 1427	CES
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EPA 420.1

Phenols, total	<0.035	0.035	mg/L	1		09/16/24 0842	09/16/24 1535	KKJ
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EPA 9020

Total Organic Halogens (TOX)	1.30	0.010	mg/L	1	TX1, TX2	09/26/24 0000	09/27/24 0430	BDF
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SM 4500 H+ B

pH	6.9	0.5	pH	1	H4		09/09/24 1359	BSS
----	------------	-----	----	---	-----------	--	---------------	-----

SM 5210 B

BOD (5 day)	19	6	mg/L	3	K3		09/06/24 1452	MND
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TIMBERLINE

Nitrogen, Ammonia	47.5	1.00	mg/L	10		09/15/24 1634	09/16/24 1124	JAC
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USGS I-3765-85

Total Suspended Solids (TSS)	16	1	mg/L	1		09/10/24 0901	09/10/24 1130	MEAH
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Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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300.0

Chloride	524	10.0	mg/L	10		09/17/24 0000	09/18/24 0336	MID
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Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
-------------------------------	--------	----	-------	----	------	----------	----------	---------

200.7

Iron, total	7.69	0.100	mg/L	1		09/06/24 1623	09/09/24 2338	JAR
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Magnesium, total	63.0	0.10	mg/L	1		09/06/24 1623	09/09/24 2338	JAR
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245.1

Mercury, total	<0.00050	0.00050	mg/L	1		09/13/24 1529	09/16/24 1300	JAR
----------------	----------	---------	------	---	--	---------------	---------------	-----

EPA 200.7

Zinc, total	<0.020	0.020	mg/L	1		09/06/24 1623	09/09/24 2338	JAR
-------------	--------	-------	------	---	--	---------------	---------------	-----

EPA 200.8

Arsenic, total	0.0250	0.0020	mg/L	4		09/09/24 1555	09/10/24 2242	RVV
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Barium, total	0.953	0.0020	mg/L	4		09/09/24 1555	09/10/24 2242	RVV
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Cadmium, total	<0.0002	0.0002	mg/L	4		09/09/24 1555	09/10/24 2242	RVV
----------------	---------	--------	------	---	--	---------------	---------------	-----

Copper, total	0.0044	0.0020	mg/L	4		09/09/24 1555	09/10/24 2242	RVV
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Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HI0387

Client Sample ID:	Leachate Sample	Collected By:	Hinkel, Tyler
Sample Matrix:	Aqueous	Collection Date:	09/05/2024 14:15
Lab Sample ID:	1HI0387-01		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Lead, total	<0.0008	0.0008	mg/L	4		09/09/24 1555	09/10/24 2242	RVV

Definitions

- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- K3:** Glucose/glutamic acid recovery was above acceptance limits. The reported value is estimated.
- RL:** Reporting Limit
- S2:** Surrogate recovery is below acceptance limits.
- TX1:** Repeated analysis of this sample consistently exceeded greater than 10% breakthrough to the second column.
- TX2:** The RPD value for the sample duplicates are outside of acceptance limits due to matrix interference. The reported value is an average of all test measurements.

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:



Tiffannie Clymer
 Customer Relationship Specialist
 tiffannie.clymer@microbac.com
 09/27/24 16:05



600 Ea
Newtor
641-791

1 H I 0 3 8 7
Harrison County Landfill
PM: Tiffanie Clymer

Printed: 8/19/2024 11:08:17A
www.keystonelabs.com

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Annual Leachate Testing - September
Annual Leachate Testing

REPORT TO

Tyler Hinkel
Harrison County Landfill
2912 E Hwy 30, PO Box 121
Logan, VA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2912 E Hwy 30, PO Box 121
Logan, VA 51546

SPECIAL INSTRUCTIONS

None

Turn Around Time

Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order HI0387

Temperature 73

Turn-Cooler: No

Custody Seal

Containers Intact

COC/Labels Agree

Preservation Confirmed

Received on Ice

Number Sample Identification / Client ID

Matrix

Sample Type

Date

Time

Number of Containers

Analyses

Lab Sample Number

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number	
-001	Leachate Sample	Aqueous	COMP	<u>8/1</u>	<u>1415</u>	<u>10</u>	624-105 as-t-200.8 bod-5210 cl-300.0 cond-2510 fe-t-200.7 og-t-1.664 ph-4.500 flu-351.2 zn-t-200.7	9020-100 ba-t-200.8 cd-t-200.8 cod-t-410.4 cu-t-200.8 hg-t-245.1 nh3-tinbertime pb-t-200.8 phenol-t-420.1 tss-i-3765-85	<u>01</u>

Relinquished By Tyler Hinkel Date/Time 9-5-24 1415

Relinquished By Kenny Hobbs Date/Time 9/6/24 10:30

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HI0388

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 09/06/2024
Reported: 09/20/2024

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Leachate Sample, Aqueous, 1HI0388-01, Hinkel, Tyler, 09/05/2024.

Main data table with columns: Determination of Conventional Chemistry Parameters, Result, RL, Units, DF, Note, Prepared, Analyzed, Analyst. Rows include EPA 1664A, EPA 351.2, SM 4500 H+ B, SM 5210 B, TIMBERLINE, USGS I-3765-85.

Definitions

- H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
K3: Glucose/glutamic acid recovery was above acceptance limits. The reported value is estimated.
RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Sue Thompson (handwritten signature)

Sue Thompson
Client Services Manager
09/20/24 08:26



600 East 17th Street South
 Newton, IA 50208
 641-792-8451

Harrison County Landfill
 P.M. Tiffanie Clymer

Page 1 of
 8/16/2024 2:49:07P
 v.keystonelabs.com

CHAIN OF CUSTODY REPORT



1 H I 0 3 8 8

SITE INFORMATION

Sampler: Tyler Hinkel
Project: Leachate Testing
 Harrison County Landfill

REPORT TO

Tyler Hinkel
 Harrison County Landfill
 2812 E Hwy 30, PO Box 121
 Logan, IA 51549

INVOICE TO

Accounts Payable
 Harrison County Landfill
 2812 E Hwy 30, PO Box 121
 Logan, IA 51549

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly
Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1410388
Temperature 3.0
Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Aqueous	GRAB	<u>8/15/24</u>	<u>1400</u>	<u>3</u>	amt-52110 og-f-1664 km-351.2 m3-dimertime ph-4500 tps-i-3765-95	<u>1</u>

Relinquished By [Signature] Date/Time 9-5-24 1400

Relinquished By [Signature] Date/Time 9/16/24 10:30

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1517

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 10/18/2024
Reported: 10/31/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Mikels, Evan
Sample Matrix:	Aqueous	Collection Date:	10/17/2024 13:00
Lab Sample ID:	1HJ1517-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1	A14	10/28/24 1127	10/29/24 0730	RDH
EPA 351.2								
Nitrogen, Kjeldahl, total	88.3	5.00	mg/L	5			10/29/24 1300	AKK
SM 4500 H+ B								
pH	6.9	0.5	pH	1	H4		10/21/24 1258	BSS
SM 5210 B								
BOD (5 day)	26	6	mg/L	3		10/18/24 1532	10/18/24 1805	MND
TIMBERLINE								
Nitrogen, Ammonia	97.4	1.00	mg/L	10		10/22/24 1012	10/23/24 1320	RAF
USGS I-3765-85								
Total Suspended Solids (TSS)	51	1	mg/L	1		10/23/24 1014	10/24/24 1530	MEAH

Definitions

- A14:** Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- RL:** Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Tiffannie Clymer
Customer Relationship Specialist
tiffannie.clymer@microbac.com
10/31/24 15:52



600 East 11th
Newton, IA
641-792-84

1 H J 1 5 1 7
Harrison County Landfill
P/N: Tiffanie Clymer



Page 1 of
Printed: 9/9/2024 8:39:29A
www.kestonelabs.com

SITE INFORMATION

Sampler: Evan M. Reils
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

OG & NH3 is Quarterly
Turn Around Time
 Standard RUSH, need by / /

LAB USE ONLY

Work Order 11751517
Temperature 1.1
Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Aqueous	GRAB	<u>10/17/24</u>	<u>13:00</u>	<u>3</u>	fast-3210 og-1-664 fm-351.2 nh3-timberline ph-4500 tss-i-3765-85	<u>01</u>

Relinquished By AMJ Date/Time 10-17-24 13:00

Relinquished By Payal Mankar Date/Time 10-18-24 12:30

Received By _____ Date/Time _____
Received for Lab By _____ Date/Time _____
Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HK0995

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 11/14/2024
Reported: 12/04/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Mikels, Evan
Sample Matrix:	Aqueous	Collection Date:	11/13/2024 13:00
Lab Sample ID:	1HK0995-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1		11/22/24 1047	11/25/24 0730	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	23.7	10.0	mg/L	1		11/27/24 1034	12/02/24 1304	SGB
SM 4500-H+ B-2011								
pH	7.1	0.5	pH	1	H4	11/18/24 1633	11/18/24 1653	BSS
SM 5210 B-2016								
BOD (5 day)	15	6	mg/L	3		11/14/24 1408	11/14/24 1629	MND
TIMBERLINE								
Nitrogen, Ammonia	20.8	2.00	mg/L	20		11/19/24 1311	11/19/24 1622	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	236	1	mg/L	1		11/19/24 0818	11/19/24 1400	MEAH

Definitions

- H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
- RL: Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Tiffannie Clymer
Customer Relationship Specialist
tiffannie.clymer@microbac.com
12/04/24 09:18

Keystone

LABORATORIES
A Microbac Company

600 East 17th Street
Newton, IA 50208
641-792-8451

Harrison County Landfill
PM: Tiffanie Clymer

Page 1 of
Printed: 10/22/2024 7:51:50A
www.kestonelabs

CHAIN OF



SITE INFORMATION

Sampler: Evan M. Kels
Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Hinkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

OG & NH3 15 Quarterly
Turn Around Time
 Standard RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1HR0995
Temperature 0.1
Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number _____ Sample Identification / Client ID _____

Matrix _____

Sample Type _____

Date _____

Time _____

Number of Containers _____

Analyses _____

Lab Sample Number _____

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
1001	Leachate Sample	Aqueous	GRAB	11/13/24	13:00	3	hant-43210 og-t-1564 hsn-351.2 nhs-amberfine ph-4500 hss-1-3759-85	01

Relinquished By [Signature] Date/Time 11-13-24 13:00

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Received for Lab By _____

Date/Time _____

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HL0918

Harrison County Landfill

Project Name: Harrison County Landfill

Tyler Hinkel
2812 E Hwy 30, PO Box 121
Logan, IA 51546

Project / PO Number: N/A
Received: 12/12/2024
Reported: 12/27/2024

Analytical Testing Parameters

Client Sample ID:	Leachate Sample	Collected By:	Mikels, Evan
Sample Matrix:	Aqueous	Collection Date:	12/11/2024 13:00
Lab Sample ID:	1HL0918-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1	A12	12/24/24 0818	12/26/24 0730	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	48.0	25.0	mg/L	1		12/24/24 1303	12/27/24 1101	AKK
SM 4500-H+ B-2011								
pH	7.1	0.5	pH	1	H4	12/16/24 1311	12/16/24 1415	BSS
SM 5210 B-2016								
BOD (5 day)	20	6	mg/L	3		12/13/24 0834	12/13/24 1038	MND
TIMBERLINE								
Nitrogen, Ammonia	67.7	1.00	mg/L	10		12/18/24 1406	12/23/24 1436	ZZZ
USGS I-3765-85								
Total Suspended Solids (TSS)	19	2	mg/L	2		12/16/24 1624	12/17/24 1427	MEAH

Definitions

- A12:** Sample was preserved with Sulfuric Acid to pH <2 on receipt.
- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- RL:** Reporting Limit

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Sue Thompson
Client Services Manager
12/27/24 11:49

Keystone

LABORATORIES
A Microbac Company

500 East
Newton
641-792

1 H L 0 9 1 8
Harrison County Landfill
PM: Tiffanie Cymer

www.keystone labs.com

Page 1 of
Printed: 11/15/2024 10:02:10A

Page 2 of 2

SITE INFORMATION

Sampler: Evan M:Kels

Project: Leachate Testing
Harrison County Landfill

REPORT TO

Tyler Minkel
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

INVOICE TO

Accounts Payable
Harrison County Landfill
2812 E Hwy 30, PO Box 121
Logan, IA 51546

SPECIAL INSTRUCTIONS

CG & NH3 is Quarterly

Turn Around Time

Standard RUSH, need by / /

LAB USE ONLY

Work Order HL0918

Temperature 0.0

Turn-Cooler: NO

Custody Seal
 Containers Intact
 COC/Labels Agree
 Preservation Confirmed
 Received on Ice

Number Sample Identification / Client ID

Matrix

Sample Type

Date

Time

Number of Containers

Analyses

Lab Sample Number

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Sample	Aqueous	GRAS	12/11/24	13:00	3	hrd-5210 ag-4-1664 hsd-2512 mh3-imbrtime gh-4590 hss-4-2765-85	01

Relinquished By Evan M:Kels Date/Time 12-11-24 13:00

Date/Time

Received By

Date/Time

Relinquished By [Signature]


Date/Time

Received for Lab By [Signature]

Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Appendix G
2024 Annual Landfill Gas Report

Table G1
Gas Monitoring Summary
2024 Gas Monitoring Report
Harrison County Sanitary Landfill
Permit No. 43-SDP-05-94P

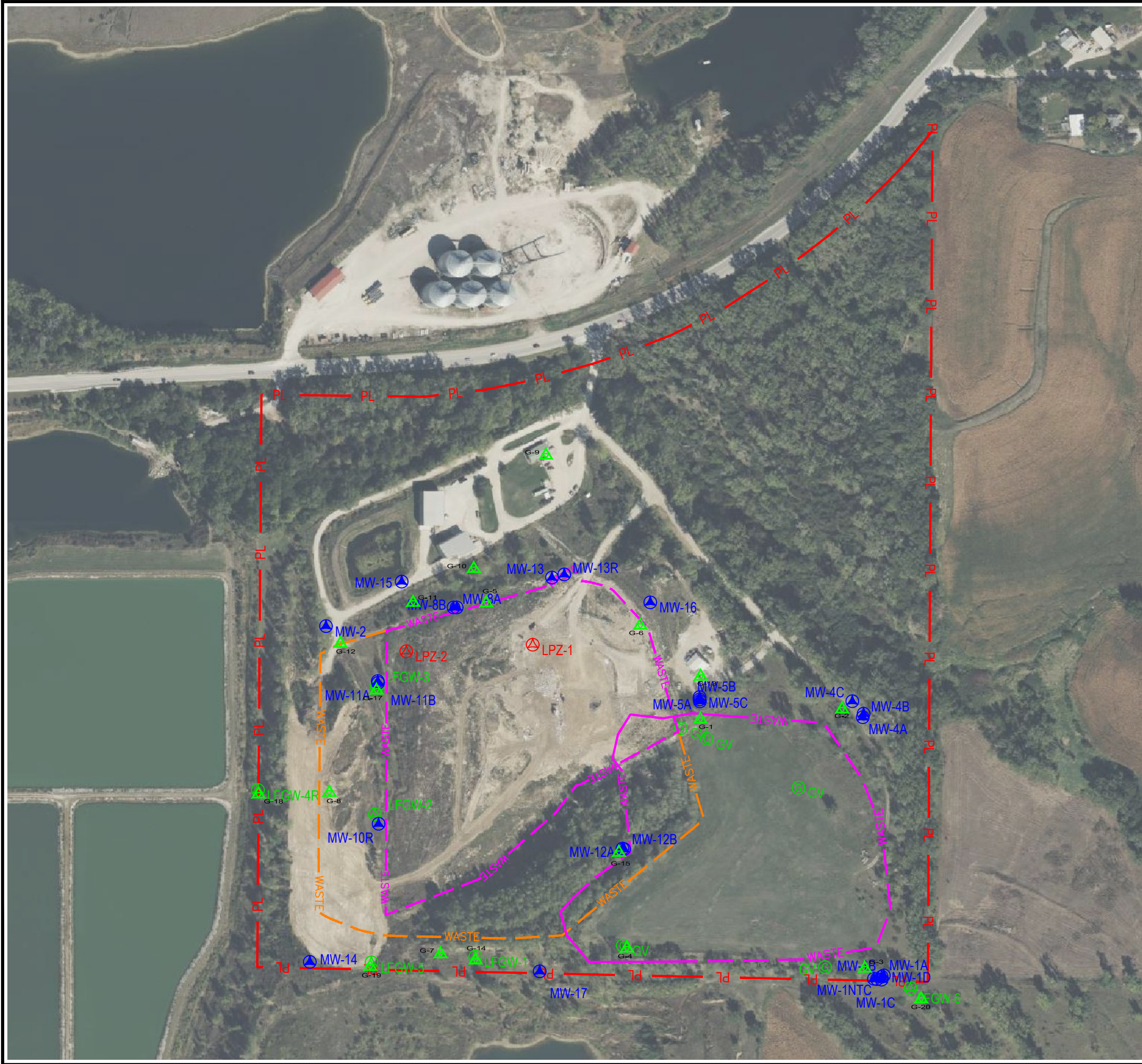
Monitoring Points				Methane Concentration % of LEL							
Name	Type	Description	2/29/2024	S (Y/N/U)	6/21/2024	S (Y/N/U)	8/21/2024	S (Y/N/U)	11/13/2024	S (Y/N/U)	
#1	G-1	Outdoor	Northwest corner of East MSWLF unit	0%		0%		0%		0%	
#2	G-2	Outdoor	Northeast corner of East MSWLF unit	0%		0%		0%		0%	
#3	G-3	Outdoor	Southeast corner of East MSWLF unit	0%		0%		0%		0%	
#4	G-4	Outdoor	Southwest corner of East MSWLF unit	0%		0%		0%		0%	
#5	G-5	Outdoor	Center of north boundary of West MSWLF unit	0%		0%		0%		0%	
#6	G-6	Outdoor	Center of east boundary of West MSWLF unit	0%		0%		0%		0%	
#7	G-7	Outdoor	Center of south extent of West MSWLF unit	0%		0%		0%		0%	
#8	G-8	Outdoor	Center of west boundary of West MSWLF unit	0%		0%		0%		0%	
#9	G9: Scale House	Indoor	Scale House	0%		0%		0%		0%	
#10	G10: Transfer Station Floor Drain	Indoor	Transfer Station floor drain	0%		0%		0%		0%	
#11	G11: Cleanout East of Transfer Station	Outdoor	Cleanout east of Transfer Station	0%		0%		1%		0%	
#12	G12: Leachate Vault	Outdoor	Leachate vault	0%		0%		0%		0%	
#13	G13: Shop	Indoor	Shop	0%		0%		0%		0%	
#14	G14: LFGW-1	Subsurface	LFGW-1	0%	N	0%	N	0%	N	0%	
#15	G15: MW-12A	Subsurface	Subsurface of MW-12A	0%	N	0%	N	0%	N	0%	
#17	G17: LFGW-3	Subsurface	LFGW-3	0%	N	0%	N	0%	N	0%	
#18	G18: LFGW-4R	Subsurface	LFGW-4R	0%	N	0%	N	0%	N	0%	
#19	G19: LFGW-5	Subsurface	LFGW-5	0%	N	0%	N	0%	N	0%	
#20	G20: LFGW-6	Subsurface	LFGW-6	0%	N	0%	N	0%	N	0%	
#21	G-21: HHM Storage Building	Indoor	HHM Storage Building	0%		0%		0%		0%	
#22	G-22: Storage Shed	Indoor	Storage Shed	0%		0%		0%		0%	

Comments:

S(Y/N/U) - Was screen submerged, yes, no, or unknown.

No action limits were exceeded during this reporting period.

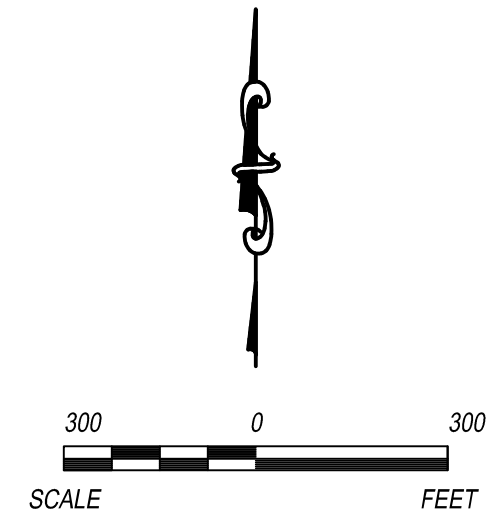
I:\DES-F501\DES MOINES\PROJECT\224470_25\AUTOCAD\2025 AWQR MAP.DWG



LEGEND

- ▲ MW-4C MONITORING WELL
- ▲ LFGW-1 LANDFILL GAS WELL
- ⊙ LPZ-1 LEACHATE PIEZOMETER
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- ▲ METHANE MONITORING POINT

No.	Monitoring Point	Type	Description
#1	G-1	Outdoor	Northwest corner of East MSWLF unit
#2	G-2	Outdoor	Northeast corner of East MSWLF unit
#3	G-3	Outdoor	Southeast corner of East MSWLF unit
#4	G-4	Outdoor	Southwest corner of East MSWLF unit
#5	G-5	Outdoor	Center of north boundary of West MSWLF unit
#6	G-6	Outdoor	Center of east boundary of West MSWLF unit
#7	G-7	Outdoor	Center of south extent of West MSWLF unit
#8	G-8	Outdoor	Center of west boundary of West MSWLF unit
#9	G9: Scale House	Indoor	Scale House
#10	G10: Transfer Station Floor drain	Indoor	Transfer Station floor drain
#11	G11: Cleanout East of Transfer Station	Outdoor	Cleanout east of Transfer Station
#12	G12: Leachate Vault	Outdoor	Leachate vault
#13	G13: Shop	Indoor	Shop
#14	G14: LFGW-1	Subsurface	LFGW-1
#15	G15: MW-12A	Subsurface	Subsurface of MW-12A
#17	G17: LFGW-3	Subsurface	LFGW-3
#18	G18: LFGW-4R	Subsurface	LFGW-4R
#19	G19: LFGW-5	Subsurface	LFGW-5
#20	G20: LFGW-6	Subsurface	LFGW-6
#21	G-21: HHM Storage Building	Indoor	HHM Storage Building
#22	G-22: Storage Shed	Indoor	Storage Shed



REV.	DATE	CHK BY	DATE	REV.	DATE	CHK BY	DATE
1	1/22/25	CJD	1/22/25	1	1/22/25	CJD	1/22/25
SHEET TITLE				PROJECT TITLE			
METHANE MONITORING NETWORK				HARRISON COUNTY SANITARY LANDFILL 2024 ANNUAL WATER QUALITY REPORT			
CLIENT				SHEET NO.			
HARRISON COUNTY LANDFILL COMMISSION				1			
2812 E HIGHWAY 30 LOGAN, IOWA				CADD FILE:			
SCS ENGINEERS				224470_25			
1680 ALL STATE COURT, SUITE 100 WEST DES MOINES, IOWA 50265 (515) 631-6160				DATE:			
2/24/25				FIGURE NO.			
1				1			